

SEQUENCE LISTING

<110> Houghton, Raymond L.
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<120> COMPOSITIONS AND METHODS FOR THE THERAPY
AND DIAGNOSIS OF BREAST CANCER

<130> 210121.470C11

<140> US

<141> 2002-02-13

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<212> DNA
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<212> DNA
<213> Homo sapien

<400> 13

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aatgcttagg	tattggcctt	ttctctggaa	accatatttt	tcctttttta	ataatcaact	180
aaaatgtata	tgttaaaaag	cctcatcttt	tgattttcaa	tatacaaaat	gctttcttta	240
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<211> 301
<212> DNA
<213> Homo sapien

<400> 14

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gtccctcttc	catggcctgc	aaccctaatga	ctatgggggt	gacacaagtg	acctctgccc	240
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t						301

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<211> 259
<212> DNA
<213> Homo sapien

<400> 15

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 agaactagga ctcttaattt tggggtgctt cttgactctt agttgggaaa ctgaaaatat 240
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 <213> Homo sapien

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 acaatacaca gctcttttaa gctgttcata ttcttccccc attaaacacc tgccccgggc 240
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 t 301

<210> 22
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<400> 22
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 gaagttggag ccagcgtccg gagctgcagc caagcgagtt tcctccttat cctccttagc 240
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 <212> DNA
 <213> Homo sapien

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<210> 25
 <211> 302
 <212> DNA
 <213> Homo sapien

<400> 25
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 <213> Homo sapien

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 t 301

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 cttggtgcaa attaattgcc tgggtactcac agtccagtggt taacaggcaa taatggtgtg 240
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<210> 28
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 <212> DNA
 <213> Homo sapien

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 ggaacagggt agggcgtttc gccctctctc cctctccccc tttcaacctc ttaatcactg 240
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<210> 29
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<212> DNA

<213> Homo sapien

<400> 29

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<213> Homo sapien

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ccaggcaatt aatttgcacc aagaaagttg aggggtattat cagatattgc aatctgtaca    180
gaggaagat gatttcaatt tgatttcaac ttaaccttca tctttgtctg ttaacactaa    240
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<210> 31

<211> 141

<212> DNA

<213> Homo sapien

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<211> 201

<212> DNA

<213> Homo sapien

<400> 32

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catccaccta cataaccaac atagatgtga ggtccactgc actgatagcc agactgcctg    180
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<210> 33

<211> 181

<212> DNA

<213> Homo sapien

<400> 33

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tagagaaccc aaactaatth attaaacagg atagaaacag gctgtctggg tgaaatggtt    180
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181

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 acttttcagt cgagggcctg atgaatcttg g 151

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 <211> 291
 <212> DNA
 <213> Homo sapien

<400> 35
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<210> 36
 <211> 201
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 <213> Homo sapien

<400> 36
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 gtgaaacaca caagccaatc cggaactgct gtgcgaaaga taaaatcgag aaaggcaagg 180
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 <211> 121
 <212> DNA
 <213> Homo sapien

<400> 37
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 c 121

<210> 38
 <211> 200
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<400> 38
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gctgtctggt gctgctgtta

200

<210> 39
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<212> DNA
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<400> 39

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ttttaacagt	gatcaaatta	ttatttcgaa	gttaatcgtt	cccttggtgg	ctgcatacac	180
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gtcatcccca	gggtctatac	atactatgtt	tcaactgtat	tatttgccat	ttttggcatt	300
agaatgcttc	gggaaggctt	aaagatgagc	cctgatgagg	gtcaagagga	actggaagaa	360
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caaaaaggca	ctcaactagg	aataaacact	ctacagaggt	ttctcagtg	cccatctgt	480
gtgatctcgc	gggtctacaca	aaaatagctt	cttttgcttt	gttctgttct	tatacctgtc	540
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tgtattttat	aattttacct	gtttctcccg	tggtgtctag	gatagtaagt	gagcagagca	720
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<210> 40
<211> 452
<212> DNA
<213> Homo sapien

<400> 40

aatcactaaa	gatattgact	agagaatgct	gtgtgctatt	tcaattacat	ttgtttttct	60
tttattaaca	ggaattttga	ttcttcaagg	aagtggctca	atttcaattt	caggtgacca	120
ggtttatcgt	gacttttctt	tcttgtttac	ttttcgctag	gaaggggagt	tgtaggggca	180
gattcaggta	ttggaatagg	aaaattacgt	ctaaaccatg	gaaatcttgg	aatggaatt	240
ggtggaagt	ggcgaaatgg	atatgggtaa	gggaacacaa	aaaaccctga	agctaattca	300
tccatgtcac	tgatacttct	ttttctcgt	tcctggtctt	gagagactgg	gaaaccaaca	360
gccactgcca	agatggctgt	gatcaggagg	agaactttct	tcattctcaa	cgtttcagtc	420
agttctttct	ctcacctcgg	ccgcgaccac	gc			452

<210> 41
<211> 676
<212> DNA
<213> Homo sapien

<400> 41

aatctttgaa	tgccaagtct	cttctgtact	ttcttttatt	aacatcatag	tctttgcatc	60
aagatacata	gcaatgatag	caggtttctt	tttaaagctt	agtattaata	ttaaatat	120
ttccccattt	aaattttaca	ttacttgcca	agaaaaaaaa	aaaattaaaa	ctcaagttac	180
ttgaagcctg	gacacacttc	catgattagc	cgggctaggt	aaaagtgggt	ggctttattc	240
ttcctgctct	ataagcagat	ccaggcccta	gaaagatggg	accagggtat	ataattgttt	300
ttgaaaagt	tgctacaaaa	atggatggcc	tggtataagc	caggatacaa	agttaaggat	360
gggggtaagg	gagggaacatt	ttcttccaga	agaaaagaca	gaatttctga	agagtcccag	420
tccataattt	ttccaaaatg	gttgaggagg	agggtaaaat	ctcaacatga	gtttcaaagt	480
actgtctctg	tgaggggccc	gtagatgcct	tgctgaggag	ggatggctaa	tttgaccat	540
gccccatccc	cagctaggag	aatggaaatg	gaaactttta	ttgccagtg	ggtgtgaaag	600
tgggctgaag	cttggttggg	actgaattct	ctaagaggtt	tcttctagaa	acagacaact	660

cagacctgcc cgggccc

676

<210> 42

<211> 468

<212> DNA

<213> Homo sapien

<400> 42

agcgtggtcg	cggccgaggt	ttggccggga	gcctgatcac	ctgccctgct	gagtcccagg	60
ctgagcctca	gtctccctcc	cttggggcct	atgcagaggt	ccacaacaca	cagatttgag	120
ctcagccctg	gtgggcagag	aggtagggat	ggggctgtgg	ggatagttag	gcacgcgaat	180
gtaagactcg	ggattagtac	acacttggtg	attaatggaa	atgtttacag	atccccaagc	240
ctggcaaggg	aattttcttca	actccctgcc	ccccagccct	ccttatcaaa	ggacaccatt	300
ttggcaagct	ctatgaccaa	ggagccaaac	atcctacaag	acacagttag	catactaatt	360
aaaaccccct	gcaaagccca	gcttgaaacc	ttcacttagg	aacgtaatcg	tgtcccctat	420
cctacttccc	cttctctaatt	ccacagacct	gcccgggcgg	ccgctcga		468

<210> 43

<211> 408

<212> DNA

<213> Homo sapien

<400> 43

atcatatcaa	aacactatct	tcccatctgt	ttctcaatgc	ctgctacttc	ttgtagatat	60
ttcattttcag	gagagcagca	gttaaaccgg	tggattttgt	agttagggaac	ctggggttcaa	120
acctctttcc	actaattggc	tatgtctctg	gacagttttt	tttttttttt	ttttttttta	180
accttttctg	aacttttact	ttctatggct	acctcaaaga	attgtttgtga	ggcttgagat	240
aatgcatttg	taaagggctt	gccagatagg	aagatgctag	ttatggattt	acaaggttgt	300
taaggctgta	agagtctaaa	acctacagtg	aatcacaatg	catttaccct	cactgacttg	360
gacataagtg	aaaactagcc	cgaagtctct	ttttcaaatt	acttacag		408

<210> 44

<211> 160

<212> DNA

<213> Homo sapien

<400> 44

tggtcgcggc	cgaggtcttg	tgtgccctgt	gggccagggg	accaagaaca	acaagatcca	60
ctctctgtgc	tacaatgatt	gcaccttctc	acgcaacact	ccaaccagga	ctttcaacta	120
caactttctc	gctttggcaa	acaccgtcac	tcttgctgga			160

<210> 45

<211> 231

<212> DNA

<213> Homo sapien

<400> 45

cgagcggccc	cccgggcagg	tctggggagg	tgattccatc	cagagtcata	tctgtttgtca	60
ccccataaag	tgcagcagca	aggctgacag	gctgtgagga	aaccccgccc	ttgtagcctg	120
tcacctctgg	ggggatgatg	actgcctggc	agacgtaggc	tgtgatagat	ttgggagaaa	180
acctgactca	ccctcaggaa	tccggagggt	ggtgacattg	tcggtgcaca	c	231

<210> 46

<211> 371

<212> DNA

<213> Homo sapien

<400> 46

ccccgggcagg	tctgtgtaac	atgccaaaggc	tttgcaacttt	ctgcagagca	gttttttatt	60
ttccttatca	ggtacagggt	ttgggtttttc	ttgactatct	ctgatgaatt	tttcatgagt	120
ctgtatatgc	agaatctttt	ccctaaatac	tgcttcgtcc	catgtctgaa	ggcgtaaaat	180
aaagtcattc	atcatttttt	ctttgtacat	gtttatttgt	tctttttcaa	ttacaccaag	240
cattactagt	cagaaggaag	cacttgctac	ctcttgctct	tcctctgcct	ctggtttgga	300
tcattttgat	gacattgccc	acattactca	tgaaggatga	caagattgca	ctgtgcaatg	360
tcaattgcct	t					371

<210> 47

<211> 261

<212> DNA

<213> Homo sapien

<400> 47

gccctgtttt	tatacacttc	acatttgcag	aaatataatg	atgccctcat	tatcagtgag	60
catgcacgaa	tgaagatgc	tctggattac	ttgaaagact	tcttcagcaa	tgtccgagca	120
gcaggattcg	atgagattga	gcaagatctt	actcagagat	ttgaagaaaa	gctgcaggaa	180
ctagaaagtg	tttccaggga	tcccagcaat	gagaatccta	aacttgaaga	cctctgcttc	240
atcttacaag	aagagtacca	c				261

<210> 48

<211> 701

<212> DNA

<213> Homo sapien

<400> 48

cgagcggccc	ccgggcagggt	ccaattagta	caagtctcat	gatataatca	ctgcctgcat	60
acatatgcac	agatccagtt	agtgagtttg	tcaagcttaa	tctaattgggt	taagtctcaa	120
agagattatt	attcttgatg	tttgctttgt	attggctaac	aaatgtgcag	aggtaataca	180
tatgtgatgt	ccgatgtctc	tgtctttttt	tttgtcttta	aaaaataatt	ggcagcaact	240
gtatttgaat	aaaatgattt	cttagtatga	ttgtaccgta	atgaatgaaa	gtggaacatg	300
tttctttttg	aaagggagag	aattgaccat	ttattattgt	gatgtttaag	ttataactta	360
ttgagcaact	ttagtagtga	taactgtttt	taaacttgcc	taataccttt	cttgggtatt	420
gtttgtaatg	tgaacttattt	aacccccctt	tttgtttgtt	taagttgctg	ctttaggtta	480
acagcgtggt	ttagaagatt	taaatttttt	tcctgtctgc	acaattagtt	attcagagca	540
agagggcctg	attttataga	agccccttga	aaagagggtc	agatgagagc	agagatacag	600
tgagaaatta	tgtgatctgt	gtgttggtgg	aagagaattt	tcaatatgta	actacggagc	660
tgtagtgcc	ttagaaactg	tgaatttcca	aataaatttg	a		701

<210> 49

<211> 270

<212> DNA

<213> Homo sapien

<400> 49

agcggccgcc	cgggcagggtc	tgatattagt	agctttgcaa	ccctgataga	gtaaataaat	60
tttatgggcg	ggtgccaaat	actgctgtga	atctatttgt	atagtatcca	tgaatgaatt	120
tatggaaaata	gatattttgtg	cagctcaatt	tatgcagaga	ttaaatgaca	tcataatact	180
ggatgaaaac	ttgcatagaa	ttctgattaa	atagtgggtc	tgtttcacat	gtgcagtttg	240
aagtatttaa	attaaccact	cctttcacag				270

<210> 50
 <211> 271
 <212> DNA
 <213> Homo sapien

<400> 50
 atgcatttat ccatatgaac ttgattattc tgaattactg actataaaaa ggctattgtg 60
 aaagatatca cactttgaaa cagcaaatga attttcaatt ttacatttaa ttataagacc 120
 acaataaaaa gttgaacatg cgcatatcta tgcatttcac agaagattag taaaactgat 180
 ggcaacttca gaattatttc atgaagggtg caaacagtct ttaccacaat tttcccatgg 240
 tcttatcctt caaaataaaa ttccacacac t 271

<210> 51
 <211> 241
 <212> DNA
 <213> Homo sapien

<400> 51
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 aatggcttat cccaccgcc atgtaagtta ccatgcctgt ctctccctc ctacacattt 120
 ccagctcctg ctgcagttat tctacagaa gctgccattt accagccctc tgtgattttg 180
 aatccacgag cactgcaggc cctccacagc gttactacc agcaggcact cagctcttca 240
 t 241

<210> 52
 <211> 271
 <212> DNA
 <213> Homo sapien

<400> 52
 tccaagactt aaaacttagg aaacacctat gatgccactt taactggaag taatggagac 60
 atctgattcc aaattcacat tttaaatgcc tatttgcaat cagcaaagag ccaggtatgc 120
 tgcatgctgc ttgctgtaag ttacgatttg gcttcactag ctcaaatttt ttactccac 180
 caaaagataa ggcacaggcc cgtttgtcca atcaagtttg ctgaaaatac tgcagcctga 240
 gtgtagacaa acttccctcg aatttgctag a 271

<210> 53
 <211> 493
 <212> DNA
 <213> Homo sapien

<400> 53
 ttagcgtggt cgcgggtccga ggtctggcct gactagctca ctctgaagag tgtctttcac 60
 atggattaac caaaaaatgc attactgcct ttggcacact gtcttgaata ttctttctga 120
 caatgagaaa atatgattta atggagtctg tcaataacct cacaatctcg ctgttccgag 180
 cagatagttt tcgtgccaac aggaactggc acatctagca gggtcacggc atgacctttt 240
 tgtggactgg ctggcataat tggaaatgggt tttgattttt cttctgctaa taactcttca 300
 agcttttgaa gttttcaagc attcctctcc agttgcctgt gggttggttct tgaacaccat 360
 ctccaacccc accacctcca gatgcaacct tgtctcgtga tacagacctg cccgggcggc 420
 cctcaagggc gaattctgca gatatccatc aactggcggc ccgctcgagc atgcatctag 480
 agggccaat tcg 493

<210> 54

<211> 321
 <212> DNA
 <213> Homo sapien

<400> 54
 cgtgggtcgcg gccgaggtct gtttgcttgt tgggtgtgagt ttttcttctg gagactttgt 60
 actgaatgtc aataaactct gtgattttgt taggaagtaa aactgggac tatttagcca 120
 ctggtaagct tctgaggtga aggattcagg gacatctcgt ggaacaaaca ctccccactg 180
 gactttctct ctggagatac ccttttgaat atacaatggc cttgggtcac taggtttaaa 240
 tacaacaag tctgaaaccc actgaagact gagagattgc agcaatattc tctgaattag 300
 gatcggttc cataactcta a 321

<210> 55
 <211> 281
 <212> DNA
 <213> Homo sapien

<400> 55
 ttgcaaatga aactgtggat gtataataag aaaacacaag ggtttattct taacactaaa 60
 attaacatgc cacacgaaga ctgcattaca gctctctgtt tctgtaatgc agaaaaatct 120
 gaacagccca ccttggttac agctagcaaa gatggttact tcaaagtatg gatattaaca 180
 gatgactctg acatatacaa aaaagctgtt ggctggacct gtgactttgt tggtagttat 240
 cacaagtatc aagcaactaa ctgttgtttc tccgaagatg g 281

<210> 56
 <211> 612
 <212> DNA
 <213> Homo sapien

<400> 56
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 ggggtgttggg gagagactgt gggcctggag ataaaaactg tctcctctac caccaccctg 120
 taccctagcc tgcacctgtc ctcatctctg caaagttcag ctccctccc caggctctctg 180
 tgccactctg tcttggtatgc tctggggagc tcatgggtgg aggagtctcc accagaggga 240
 ggctcagggg actggttggg ccagggatga atatttgagg gataaaaaatt gtgtaagagc 300
 caaagaattg gtagtagggg gagaacagag aggagctggg ctatgggaaa tgatttgaat 360
 aatggagctg ggaatatggc tggatatctg gtactaaaaa agggcttta agaactact 420
 tcctaattct tcccccaatc caaaccatag ctgtctgtcc agtgctctct tctgctcc 480
 agctctgccc caggctcctc ctagactctg tccctgggct agggcagggg aggagggaga 540
 gcaggggttg gggagaggct gaggagagt tgacatgtgg ggagaggacc agacctgccc 600
 gggcggccgt cg 612

<210> 57
 <211> 363
 <212> DNA
 <213> Homo sapien

<400> 57
 gtcgcggccg aggtcctgag cgtcacccta gttctgcccc tttttagctg tgtagacttg 60
 gacaagacat ttgacttccc tttctccttg tctataaaat gtggacagt gacgtctgtc 120
 acccaagaga gttgtgggag acaagatcac agctatgagc acctcgcac gtgtccagga 180
 tgcacagcac aatccatgat gcgttttctc cccttacgca ctttgaaacc catgctagaa 240
 aagtgaatac atctgactgt gctccactcc aacctccagc gtggatgtcc ctgtctgggc 300
 cctttttctg ttttttattc tatgttcagc accactggca ccaaatacat ttaattcac 360

cga

363

<210> 58
 <211> 750
 <212> DNA
 <213> Homo sapien

<400> 58

cgtgggtcgcg	gccgaggtct	aattccacct	gactggcaga	acctgcgccc	ctcgcctaac	60
ctgcgccctt	ctcccaactc	gcgtgcctca	cagaacccag	gtgctgcaca	gccccgagat	120
gtggcccttc	ttcaggaaag	agcaaataag	ttgggtccaag	tacttgatgc	ttaaggaata	180
cacaaagggtg	cccatcaagc	gctcagaaat	gctgagagat	atcatccgtg	aatacactga	240
tgtttatcca	gaaatcattg	aacgtgcatg	ctttgtccta	gagaagaaat	ttgggattca	300
actgaaagaa	attgacaaag	aagaacacct	gtatattctc	atcagtaccc	ccgagtcctt	360
ggctggcata	ctgggaacga	ccaaagacac	acccaagctc	ggctctttct	tggtgattct	420
gggtgtcatc	ttcatgaatg	gcaaccgtgc	cagtgaaggct	gtcttttggg	aggcactacg	480
caagatggga	attgcgtcctg	gggtgagaca	tccctccctt	tggagatcta	aggaaaacttc	540
tcacctatga	gtttgtaaaag	cagaaatacc	tggactacag	acgagtgcgc	aacagcaacc	600
ccccggagta	tgagttcctc	tggggcctcc	gtccctacca	tgagactagc	aagatgaaaa	660
tgctgagatt	cattgcagag	gttcagaaaa	gagaccctcg	tgactggact	gcacagttca	720
tggaggctgc	agatgaggac	ctgcccgggc				750

<210> 59
 <211> 505
 <212> DNA
 <213> Homo sapien

<400> 59

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ttccagccgc	agttctttta	taagctttaa	gtgcctcatg	aagacgcgag	gatctcttcc	120
aagtgaaccc	tggtcacatc	agggcacatt	cagcagcaga	agtctgtttc	cagtatagtc	180
cttggtatgg	ctaaattcca	ctgtcccttt	ctcagcagtc	aataatccat	gataaattct	240
gtacaacact	gtagtcaata	acagcagcac	cagacagcat	attaattctt	ttaccataaa	300
tttgtgtgta	attataatgt	tctatgtgtg	gtgttatcaa	aagaatcact	gtgtctctaa	360
atatcatata	tgtatgtctg	gataaatata	ttgtgtgaca	acatctccaa	catgcaggtc	420
atgctctaag	acttggggat	atagagtaat	acatgtttcg	tggacctcgg	ccgcgaccac	480
gctaaggggc	aattctgcag	atatac				505

<210> 60
 <211> 520
 <212> DNA
 <213> Homo sapien

<400> 60

cgtggtcgcg	gccgaggtcc	tcaggacaag	gaaacaggta	tcagcatgat	ggtagcagaa	60
accttatcac	caaggtgcag	gagctgactt	cttccaaaga	gttgtggttc	cgggcagcgg	120
tcattgcctg	cccttgctgg	agggctgatt	ttagtgttgc	ttattatgtt	ggccctgagg	180
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cactacagct	ttcacggaca	ccattccaaa	aaggggcagg	ttgcaaagtt	agacttgga	300
tgcatggtgc	cggctcagtg	gcaocgagaac	tgctgtctga	cctgtgataa	aatgagacaa	360
gcagacctca	gcaacgataa	gatcctctcg	cttgttcaact	ggggcatgta	cagtgggcac	420
gggaagctgg	aattcgtatg	acggagtctt	atctgaacta	cacttactga	acagcttgaa	480
ggacctgccc	gggcggccgc	tcgaaagggg	cgaattctgc			520

<210> 61
 <211> 447
 <212> DNA
 <213> Homo sapien

<400> 61
 agagaggtgt ttttattctt tggggacaaa gccgggttct gtgggtgtag gattctccag 60
 gttctccagg ctgtagggcc cagaggctta atcagaattt tcagacaaaa ctggaacctt 120
 tcttttttcc cgttggttta tttgtagtcc ttggggcaaac caatgtcttt gttcgaaaga 180
 gggaaaataa tccaaacgtt tttcttttaa cttttttttt aggttcaggg gcacatgtgt 240
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 tccagataaa aagcatagta ccagataggt agttttttga tcttcaccct ccttccatgc 360
 tccgacctca ggtaggcccc agtgtctgac ctgcccggcg gcccgcctcg aagggccaat 420
 tctgcagata tccatcacac tggcccg 447

<210> 62
 <211> 83
 <212> PRT
 <213> Homo sapien

<400> 62
 Lys Lys Val Leu Leu Leu Ile Thr Ala Ile Leu Ala Val Ala Val Gly
 1 5 10 15
 Phe Pro Val Ser Gln Asp Gln Glu Arg Glu Lys Arg Ser Ile Ser Asp
 20 25 30
 Ser Asp Glu Leu Ala Ser Gly Phe Phe Val Phe Pro Tyr Pro Tyr Pro
 35 40 45
 Phe Arg Pro Leu Pro Pro Ile Pro Phe Pro Arg Phe Pro Trp Phe Arg
 50 55 60
 Arg Asn Phe Pro Ile Pro Ile Pro Ser Ala Pro Thr Thr Pro Leu Pro
 65 70 75 80
 Ser Glu Lys

<210> 63
 <211> 683
 <212> DNA
 <213> Homo sapien

<400> 63
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 accacaacaa tattccaaat tataggttga gagaatgtga ctatgaagaa agtattctaa 120
 ccaactaaaa aaaatattga aaccactttt gattgaagca aaatgaataa tgctagattt 180
 aaaaacagtg tgaaatcaca ctttggtctg taaacatatt tagctttgct tttcattcag 240
 atgtatacat aaacttattt aaaatgtcat ttaagtgaac cattccaagg cataataaaa 300
 aaagwggtag caaatgaaaa ttaaagcatt ttttttggtg gttcttcaat aatgatrcga 360
 gaaactgaat tccatccagt agaagcatct ccttttgggt aatctgaaca agtrccaacc 420
 cagatagcaa catccactaa tccagcacca attccttcac aaagtccttc cacagaagaa 480
 gtgcatgaa tattaattgt tgaattcatt tcagggcctt cttgggtcaa ataaattata 540
 gcttcaatgg gaagagggtcc tgaacattca gctccattga atgtgaaata ccaacgctga 600
 cagcatgcat ttctgcattt tagccgaagt gagccactga acaaaaactct tagagcacta 660
 tttgaacgca tctttgtaaa tgt 683

<210> 64

<211> 749
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 534
 <223> n = A,T,C or G

<400> 64
 ctgttcattt gtccgccagc tcctggactg gatgtgtgaa aggcatacaca tttccatttt 60
 cctccgtgta aatgttttat gtgttcgcct actgatccca ttcgttgctt ctattgtaaa 120
 tatttgcatt ttgtatttat tatctctgtg ttttccccct aaggcataaa atggtttact 180
 gtgttcattt gaaccattt actgatctct gtgttatatt ttcatgcca ctgctttgtt 240
 ttctcctcag aagtcgggta gatagcattt ctatcccatc cctcacgtta ttggaagcat 300
 gcaacagtat ttattgctca gggctctctg cttaaaactg aggaagggtcc acattcctgc 360
 aagcattgat tgagacattt gcacaatcta aaatgtaagc aaagtaagtc attaaaaata 420
 caccctctac ttgggcttta tactgcatac aaatttactc atgagccttc ctttgaggaa 480
 ggatgtggat ctccaaataa agatttagtg tttattttga gctctgcac ttancaagat 540
 gatctgaaca cctctccttt gtatcaataa atagccctgt tattctgaag tgagaggacc 600
 aagtatagta aaatgctgac atctaaaact aaataaatag aaaacaccag gccagaacta 660
 tagtcatact cacacaaagg gagaaattta aactcgaacc aagcaaaagg cttcacggaa 720
 atagcatgga aaaacaatgc ttccagtgg 749

<210> 65
 <211> 612
 <212> DNA
 <213> Homo sapiens

<400> 65
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 ccccacccca ggatccggga ccaaaataaa gagcaagcag gcccccttca ctgagggtgct 120
 gggtagggct cagtgccaca ttactgtgct ttgagaaaga ggaaggggat ttgtttggca 180
 ctttaaaaat agaggagtaa gcaggactgg agaggccaga gaagatacca aaattggcag 240
 ggagagacca tttggcgcca gtcccctagg agatgggagg agggagatag gtatgagggt 300
 aggcgctaag aagagtagga ggggtccact ccaagtggca ggggtgctgaa atgggctagg 360
 accaacagga cactgactct aggtttatga cctgtccata cccgttccac agcagctggg 420
 tgggagaaat caccattttg tgacttctaa taaaataatg ggtctaggca acagttttca 480
 atggatgcta aaacgattag gtgaaaagtt gatggagaat tttaattcag gggaattagg 540
 ctgataccat ctgaaacat ttggcatcat taaaaatgtg acaacctggt ggctgccagg 600
 gaggaagggg ag 612

<210> 66
 <211> 703
 <212> DNA
 <213> Homo sapiens

<400> 66
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 gcacagaacc aagaattaca gaaaaaagtc caggagctgg agaggcacia catctccttg 120
 gtagctcagc tccgccagct gcagacgcta attgctcaaa cttccaacia agctgccag 180
 accagcatt gtgttttgat ttttctttt tccttggtct tcatcatcct gccagcttc 240
 agtccattcc agagtcgacc agaagctggg tctgaggatt accagcctca cggagtgact 300
 tccagaaata tcctgaccca caaggacgta acagaaaatc tggagacca agtggttagag 360

```
<210> 67
<211> 1022
<212> DNA
<213> Homo sapiens
```

```
<210> 68
<211> 449
<212> DNA
<213> Homo sapiens
```

```
<210> 69
<211> 387
<212> DNA
<213> Homo sapiens
```

```
<220>
<221> misc feature
```

<222> 22, 26, 36, 45, 54, 56, 62, 63, 73, 92, 98, 105, 155, 174,
194, 302, 312, 358, 375, 378, 381

<223> n = A,T,C or G

<400> 69

```
gcccttagcg tgggtcgcg cncgangtct ggagcntatg tgatncctat ggtncncagg 60
cnnatactgc tantctcatt tattctcctg cnacctantc ctctnctctg gaatcacacc 120
attattgcct gttaacactg gactgtgagt accangcaat taatttgcac caanaaagtt 180
gaggggtatta tcanatattg caatctgtac agagggaaga tgatttcaat ttgatttcaa 240
cttaaccttc atctttgtct gttaacacta atagagggtg tctaataaaa tggcaaattt 300
gngatctcat tnggtataac tacactcttt ttcacagatg tgatgactga atttccanca 360
acctgccccg gcggncgntc naagggc 387
```

<210> 70

<211> 836

<212> DNA

<213> Homo sapiens

<400> 70

```
tattccattht acaaaataaa ttcagccctg cactttcttt agatgccttg atttccagaa 60
tggagcttag tgctactgaa taccctggcc acagagccac ctcaggatat tcttttctcc 120
accctagtht atthttht atgatatctgt ttacaaagtc tgtagtaaat cctgatgctg 180
accatctgaa atgtacttht tttctgaatg ctgtttcaat ctaaaatagc agcttttgag 240
aaaacaatga tgtaaattcc ttatgataaa aggatgattc tatatattct ttaatgatat 300
taaatatgcc gaagccaagc acacagtctt tctaaagtgt gtgtatgtht gtgtgaatgt 360
gaatgatact gatcttataat ctgtttaaag ttgttttaaa aagctgtggc atcccatgt 420
tcatattthg caagtcttht gtaaagatgt ctaggacgaa atattthtat tgctaattgca 480
tgtattthgta aaccagattht gthtaccact caaaattaac ttgttttctt catccaaaaa 540
agthtatttht ttccacgtac tttaaatttht tgtgtgggta taatatagct ttctaatttht 600
tttctthtca aaaggcaggt tcaaaattct gttgaaagaa aaatgcttht tgaaactgag 660
gtataacacc agagcttgct gthttaaagga ttatatgatg tacatcagtht ctataaatgt 720
gctcagcagtht ttaacatgtg aatcctgtht taaagtgtc agatttcaac tgtgtaagcc 780
attgatataa cgctgtaatt aaaaatgtht atatgaaaaa aaaaaaaaaa aaaaaa 836
```

<210> 71

<211> 618

<212> DNA

<213> Homo sapiens

<400> 71

```
gttgcaagtga gctcaagtgt tgggtgtatc agctcaaaac accatgtgat gccaatcatc 60
tccacaggag caatttgtht acctthttht tctgatgctt tactaacttc atctthttaga 120
tttaaatcat tagtagatcc tagaggagcc agthtccagaa aatatagatt ctagtthcagc 180
accaccgta gttgtgcatt gaaataatta tcattatgat tatgtatcag agctthtggtht 240
ttthtcattht thtattcatt tattcaacaa ccacgtgaca aacactggaa ttacaggatg 300
aagatgagat aatccgctcc ttggcagtht tatactatta tataacctga aaaaacaaac 360
aggtaatttht cacacaaagt aatagatatc atgacacatt taaaataggg cactactgga 420
acacacagat aggacatcca ggtthtgggt caatattgta gactthtthtgg tggatgagat 480
atgcaggttg atrccagaag gacaacaaaa acatatgtca gatagaaggg aggagcaaat 540
gccaaagagct ggagctgagg aagatcactg tgaaattcta tgtagtctag ttggctggat 600
gctagagcaa agaggtgg 618
```

<210> 72

<211> 806

<212> DNA
<213> Homo sapiens

<400> 72

```
tctacgatgg ccatttgctc attgtctttc ctctgtgtgt agtgagtgac cctggcagtg 60
tttgcctgct cagagtggcc cctcagaaca acagggctgg ccttggaaaa accccaaaac 120
aggactgtgg tgacaactct ggtcaggtgt gatttgacat gagggccgga ggcggttgct 180
gacggcagga ctggagaggc tgcgtgcccg gcaactggcag cgaggctcgt gtgtcccca 240
ggcagatctg ggcactttcc caaccaggt ttatgccgtc tccagggaag cctcggtgcc 300
agagtgggtg gcagatctga ccatcccccac agaccagaaa caaggaattt ctgggattac 360
ccagtcccc ttcaaccag ttgatgtaac cacctcattt ttacaaaata cagaatctat 420
tctactcagg ctatgggccc cgtcctcact cagttattgc gagtgttgct gtccgcatgc 480
tccgggcccc acgtggctct tgtgctctag atcatgggtg cccccccg ccgtgtggtg 540
aatcgatgcc acggattgca ggccaaattt cagatcgtgt ttccaaacac ccttgctgtg 600
ccctttaatg ggattgaaag cacttttacc acatggagaa atatatattt aatttgtgat 660
gcttttctac aaggctccact atttctgagt ttaatgtgtt tccaacactt aaggagactc 720
taatgaaagc tgatgaattt tcttttctgt ccaaacaagt aaaataaaaa taaaagtcta 780
tttagatgtt gaaaaaaaa aaaaaa 806
```

<210> 73
<211> 301
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> 59
<223> n = A,T,C or G

<400> 73

```
actctggtaa gcttgttggt gtccaagtga agctccctca gatgaggcgt gttggccana 60
gagccattgt caacagcaga gatgctgttg aaactcaatc ccaacttagc caaattattc 120
agtcctttca ggctagctgc atcaactctg ctgattttgt tgccatcaag atgtaattcc 180
gtaagggaag gaggaagacc ttgaggaatg ctggygatat tggycatcagc aatgcggatg 240
tasgaagagc ttcttcmttc cctggaaagc cccattttca atyccttgag ctcttcakcg 300
g 301
```

<210> 74
<211> 401
<212> DNA
<213> Homo sapiens

<400> 74

```
agtttacatg atccctgtaa cagccatggt ctcaaactca gatgcttctt ccatctgcc 60
agtgtgttct ggatacagag cacatcgtgg ctctctgggt cacactcagc ttaggctgtg 120
ggtccacaga gcaatcatct ggctgggcta tgggtgggtg ggctctactc aagaagcaaa 180
gcagttacca gcacattcaa acagtgtatt gaacatctt taaatatcaa agtgagaaac 240
aagaaggcaa cataataatg ttatcagaaa gatgttagga agtaaggaca gctgtgtaaa 300
gcttgaggct gaaaagtagc ttgccagctt catttctttg gtttcttggg tagtgggccg 360
ccggaacagc aagatgtgag gttctgggtc atggatcata t 401
```

<210> 75
<211> 612
<212> DNA

<213> Homo sapiens

<400> 75

```
ttattttttca attttttatatt tggtttttctt acaaagggttg acatttttcca taacagggtgt 60
aagagtgttg aaaaaaaaaat tcaaattttt ggggagcgag ggaaggagtt aatgaaactg 120
tattgcacaa tgctctgatc aatccttctt tttctctttt gccacacatt taagcaagta 180
gatgtgcaga agaaatggaa ggattcagct ttcagttaaa aaagaagaag aagaaatggc 240
aaagagaaaag ttttttcaaa tttcttttctt ttttaattta gattgagttc atttatttga 300
aacagactgg gccaatgtcc acaaagaatt cctggtcagc accaccgatg tccaaagggtg 360
caatatcaag gaagggcagg cgtgatggct tatttgtttt gtattcaatg attgtctttc 420
cccattcatt tgtcttttta gagcagccat ctacaagaac agtgtaagtg aacctgctgt 480
tgccctcagc aacaagttca acatcattag agccctgtag aatgacagcc tttttcagggt 540
tgccagtctc ctcatccatg tatgcaatgc tgttcttgca gtggtagggtg atgttctgag 600
aggcatagtt gg 612
```

<210> 76

<211> 844

<212> DNA

<213> Homo sapiens

<400> 76

```
ggcttttcgag cggccgcccc ggcaggtctg atggttctcg taaaaacccc gctagaaact 60
gcagagacct gaaattctgc catcctgaac tcaagagtgg agaatactgg gttgacccta 120
accaaggatg caaattggat gctatcaagg tattctgtaa tatggaaaact ggggaaacat 180
gcataagtgc caatcctttg aatgttccac ggaaacactg gtggacagat tctagtgtctg 240
agaagaaaca cgtttggttt ggagagtcca tggatgggtg ttttcagttt agctacggca 300
atcctgaact tcctgaagat gtccttgatg tgcagcykgc attccttcga cttctctcca 360
gccagacttc ccagaacatc acatatcact gcaaaaatag cattgcatac atggatcagg 420
ccagtggaaa tgtaaagaag gccctgaagc tgatggggtc aaatgaagggt gaattcaagg 480
ctgaaggaaa tagcaaattc acctacacag ttctggagga tggttgcacg aaacacactc 540
gggaatggag caaaacagtc tttgaatata gaacacgcaa tgctgttcct tgacattgca 600
ccaccaatgt ccagaggtgc aatgtcaagg aacggcaggc gagatggctt atttgttttg 660
tattcaatga ttgtcttgcc ccattcattt gtctttttgg agcagccatc gactaggaca 720
gagtaggatga acctgctgtt gccctcagca acaagttcca catcgttgga accctgcaga 780
agcacagcct tgttcaarct gcccgctctc tcattccagat acctcggccg cgaccacgct 840
aatc 844
```

<210> 77

<211> 314

<212> DNA

<213> Homo sapiens

<400> 77

```
ccagtcctcc acttggcctg atgagagtgg ggagtggcaa gggacgtttc tcttgcaata 60
gacacttaga tttctctctt gtgggaagaa accacctgtc catccactga ctcttctaca 120
ttgatgtgga aattgctgct gctaccacca cctcctgaag aggttccct gatgccaatg 180
ccagccatcc tggcatcctg gccctcgagc aggtcgcggt aagtagcgat ctctgctcc 240
agccgtgtct ttatgtcaag cagcatcttg tactcctggt tctgagcctc catctcgcat 300
cggagctcac tcag 314
```

<210> 78

<211> 548

<212> DNA

<213> Homo sapiens

<400> 78

```

accaagagcc aagtgttaca caggatattt taaaaataaa atgttttttg aatcctcacc 60
tcccatgcta tcttctaaga taactacaaa tattcttcaa agatttaact gagttctgcc 120
aaggacctcc caggactcta tccagaatga ttattgtaaa gctttacaaa tcccaccttg 180
gccctagcga taattaggaa atcacaggca aacctcctct ctcggagacc aatgaccagg 240
ccaatcagtc tgcacattgg ttttggttaga tactttgtgg agaaaaacaa aggctcgtga 300
tagtgcagct ctgtgcctac agagagcctc ccttttgggt ctgaaattgc tgatgtgaca 360
gagacaaagc tgctatgggt ctaaaacctt caataaagta actaatgaca ctcaagggtcc 420
tgggactctg agacagacgg tggtaaaacc cacagctgcg attcacattt ccaatttatt 480
ttgagctctt tctgaagctg ttgcttccta cctgagaatt cccattttaga gagctgcaca 540
gcacagtc

```

<210> 79

<211> 646

<212> DNA

<213> Homo sapiens

<400> 79

```

accccgtcac tatgtgaata aaggcagcta gaaaatggac tcaattctgc aagccttcat 60
ggcaacagcc catattaaga cttctagaac aagttaaaaa aaatcttcca tttccatcca 120
tgcattggga aagggcttta gtatagttta ggatggatgt gtgtataata ataaaatgat 180
aagatatgca tagtggggga ataaagcctc agagtccttc cagtatgggg aatccattgt 240
atcttagaac cgagggtatt gtttagattg ttgatctact aatttttttc ttcaattata 300
tttgaatttt caatgatagg acttattgga aattggggat aattctgttg tggattataa 360
taatattcat tttttaaaaa ctcatcttgg tattgagtta gtgcattgac ttccaatgaa 420
ttgacataag cccatatttc attttaacca gaaacaaaaa ctagaaaatg ttactcccta 480
aataggcaac aatgtatttt ataagcactg cagagattta gtaaaaaaca tgtatagtta 540
ctttagaaac aacttctgac acttgagggt tacccaatgg tctccttccc attctttata 600
tgaggtaaat gcaaaccagg gagccaccga ataaacagcc ctgagt

```

<210> 80

<211> 276

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> 16, 29, 32, 45, 53, 55, 58, 59, 65, 66, 75, 77, 85, 90, 97,
109, 112, 163, 170

<223> n = A,T,C or G

<400> 80

```

gtctgaatga gcttcnctgc gagatgganc ancataaccc agaantccaa aancntanng 60
aacgnnaaaa cccgntngaa caagnaaacn gcaactnacg gccgcctgnt gnagggcgag 120
gacgccacc tctcctcctc ccagttctcc tctggatcgc agncatccan agatgtgacc 180
tcttcagacc gccaaatccg caccaaggtc atggatgtgc acgatggcaa ggtgggtgtc 240
caccacgaa caggtccttc gcaccaagaa ctgagg

```

<210> 81

<211> 647

<212> DNA

<213> Homo sapiens

<400> 81

```

gtcctgcctt tcatcttttc tttaaaaaaa ataatgttt aaaaaacatt tccctcagat 60
tttaaaattc atggaagtaa taaacagtaa taaaatatgg atactatgaa aactgacaca 120
cagaaaaaca taaccataaa atattgttcc aggatacaga tattaattaa gagtgacttc 180
gtagcaaca cgtagacatt catacatatc cggtggaaga ctggtttctg agatgcgatt 240
gccatccaaa cgcaaagtct tgatcttgga gtaggrtaat ggcccagga tcttgacagaa 300
gctctttatg tcaaaacttct caagttgatt gacctccagg taatagtttt caaggttttc 360
attgacagtt ggtatgtttt taagcttggt ataggacaga tccagctcaa ccagggatga 420
cacattgaaa gaatttccag gtattccact atcagccagt tcgttggtgag ataaacgcag 480
atactgcaat gcattaaaac gcttgaaata ctcatcaggg atgttgctga tcttattgtt 540
gtctaagtag agagtttaga gagagacagg gagaccagaa ggcagtctgg ctatctgatt 600
gaagctcaag tcaaggtatt cgagtgtatt aagacctta aaagcag 647

```

<210> 82

<211> 878

<212> DNA

<213> Homo sapiens

<400> 82

```

ccttcttttc ccactcaatt cttcctgccc tgttattaat taagatatct tcagcttgta 60
gtcagacaca atcagaatya cagaaaaatc ctgcctaagg caaagaaata taagacaaga 120
ctatgatatc aatgaatgtg ggttaagtaa tagatttcca gctaaattgg tctaaaaaag 180
aatattaagt gtggacagac ctatttcaaa ggagcttaat tgatctcact tgttttagtt 240
ctgatccagg gagatcacc cttctaattat ttctgaactt ggtaataaaa agtttataag 300
atttttatga agcagccact gtatgatatt ttaagcaa atgttattta aaatattgat 360
ccttcccttg gaccaccttc atgttagttg ggtattataa ataagagata caaccatgaa 420
tatattatgt ttatacaaaa tcaatctgaa cacaattcat aaagatttct cttttatacc 480
ttctcactg gccccctcca cctgcccata gtcaccaa tctgttttaa atcaatgacc 540
taagatcaac aatgaagtat ttataaaatg tatttatgct gctagactgt gggtaaatg 600
tttccatttt caaattattt agaattctta tgagtttaaa atttgtaaat ttctaaatcc 660
aatcatgtaa aatgaaactg ttgctccatt ggagtagtct cccacctaaa tatcaagatg 720
gctatatgct aaaaagagaa aatatggtca agtctaaaat ggctaattgt cctatgatgc 780
tattatcata gactaatgac atttatcttc aaaacaccaa attgtcttta gaaaaattaa 840
tgtgattaca ggtagagaac ctcggccgcg accacgct 878

```

<210> 83

<211> 645

<212> DNA

<213> Homo sapiens

<400> 83

```

acaaacatth taaaaaaag aacattacca atatcagtgg cagtaagggc aagctgaaga 60
ataaatagac tgagtttccg ggcaatgtct gtccctcaaag acatccaaac tgcgttcagg 120
cagctgaaac aggcttcttt cccagtgaca agcatatgtg gtcagtaata caaacgatgg 180
taaatgaggc tactacatag gccaggttaa caaactcctc ttctcctcgg gtaggccatg 240
atacaagtgg aactcatcaa ataattttaa cccaaggcga taacaacgct atttcccacg 300
taaactcatt taagccttca caatgtcgca atggattcag ttacttgcaa acgatcccgg 360
gttgtcatag agatacttgt ttttacacat aacgctgtgc catcccttcc ttactgccc 420
cagtcagggt tctgttgtt ggaccgaaag gggacacatt ttagaaatgc ttccctcaag 480
acagaagtga gaaagaaagg agaccctgag gccaggatct attaaacctg gtgtgtgcgc 540
aaaagggagg gggaaggcag gaatttgaaa ggataaacgt ctccttttgcg ccgaggaatc 600
aggaagcgtg actcacttgg gtctgggacg ataccgaaat ccggt 645

```

<210> 84

<211> 301
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 270, 284
 <223> n = A,T,C or G

<400> 84
 tctgatgtca atcacaactt gaaggatgcc aatgatgtac caatccaatg tgaaatctct 60
 cctcttatct cctatgctgg agaaggatta gaaggttatg tggcagataa agaattccat 120
 gcacctctaa tcatcgatga gaatggagtt catgggctgg tgaaaaatgg tatttgaacc 180
 agataccaag ttttgtttgc cacgatagga atagctttta tttttgatag accaactgtg 240
 aacctacaag acgtcttgga caactgaagn tttaaatacc acanggggtt attttgcttg 300
 g 301

<210> 85
 <211> 296
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 16, 20, 240
 <223> n = A,T,C or G

<400> 85
 agcgtgggtc gcggcncgan gtagagaacc gactgaaacg tttgagatga agaaagtctt 60
 cctcctgata acagccatct tggcagtggtc tgttggtttc ccagtctctc aagaccagga 120
 acgagaaaaa agaagtatca gtgacagcga tgaattagct tcagggtttt ttgtgttccc 180
 ttacctatat ccatttcgcc cacttccacc aattccattt ccaagatttc catgggttan 240
 acgtaatttt cctattccaa tacctgaatc tgccccctaca actccccctc ctagcg 296

<210> 86
 <211> 806
 <212> DNA
 <213> Homo sapiens

<400> 86
 tctacgatgg ccatttgctc attgtctttc ctctgtgtgt agtgagtga cctggcagtg 60
 tttgcctgct cagagtggcc cctcagaaca acagggctgg ccttggaata accccaaaac 120
 aggactgtgg tgacaactct ggtcaggtgt gatitgacat gagggccgga ggoggttgct 180
 gacggcagga ctggagaggc tgcgtgcccg gcaactggcag cgaggctcgt gtgtcccca 240
 ggcagatctg ggcactttcc caaccaggt ttatgccgtc tccagggaag cctcgggtgcc 300
 agagtgggtg gcagatctga ccattccccac agaccagaaa caaggaattt ctgggattac 360
 ccagtcctcc ttcaaccag ttgatgtaac cacctcattt ttacaaaata cagaatctat 420
 tctactcagg ctatgggcct cgtcctcact cagtatttgc gagtgttgct gtccgcatgc 480
 tccgggcccc acgtggctcc tgtgctctag atcatggtga ctcccccgcc ctgtgggttg 540
 aatcgatgcc acggattgca ggccaaattt cagatcgtgt ttccaaacac ccttgctgtg 600
 ccctttaatg ggattgaaag cacttttacc acatggagaa atatattttt aatttgtgat 660
 gcttttctac aaggtccact atttctgagt ttaatgtgtt tccaacactt aaggagactc 720
 taatgaaagc tgatgaattt tcttttctgt ccaaacaagt aaaataaaaa taaaagtcta 780
 ttttagatgtt gaaaaaaaaa aaaaaa 806

<210> 87
 <211> 620
 <212> DNA
 <213> Homo sapiens

<400> 87
 tttttgcatc agatctgaaa tgtctgagag taatagtttc tgttgaattt ttttttgttc 60
 atttttctgc acagtccatt ctgtttttat tactatctag gottgaaata tatagtttga 120
 aattatgaca tccttcctct ttgttatttt cctcatgatt gctttggcta ttcaaagttt 180
 attttagttt catgtaaaatt tttgaattgt attttccatt attgtgaaaa tagtaccact 240
 gcaattttta taggaagttt attgaatcta tagattactt tggataatat ggcacttcaa 300
 taatattcat gttttcaatt catagacaaa atatttttaa atttatttgt atcttttcta 360
 atttttcctt tttttattgt aaagatttac ctctttgggt aatattttcc tcagaaattt 420
 attattttaag gtatagtcaa taaaattttc ttccctctatt ttgtcagata gtttaagtgt 480
 atgaaaccat agatatactt gtatgttaat tttatatatt gctaatttac tgagtgtatt 540
 tattagttta gagaggtttt aatgtactgt ttatggtttt ttaaataata gattacttat 600
 tttttaaaaa aaaaaaaaaa 620

<210> 88
 <211> 308
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 9, 189, 194, 206, 238, 296
 <223> n = A,T,C or G

<400> 88
 tagctgtgnt cagcaggccg aggttttttt tttttttgag atggagtctc gccctgtcac 60
 ccaggctgga gtgcagtggc ctgatctcag ctcaactgcaa gctccacctc ctggattcac 120
 gctattctcc tgccctcagcc tcccaagtag ctgggactac aggcgcccgc caccacgccc 180
 agctaattnt ttgnattttt agtacnagat gcgggtttcat cgtgttagcc agcatggnet 240
 cgatctcctg acctcgtgaa ctgcccgccet cggcctccca aagacctgcc cgggenggcc 300
 gctcgaaa 308

<210> 89
 <211> 492
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 448
 <223> n = A,T,C or G

<400> 89
 agcggccgcc cgggcaggtc tgttaagtaa catacatatc accttaataa aaatcaagat 60
 gaaatgtttt agaaactatt ttatcaaaaag tggctctgat acaaagactt gtacatgatt 120
 gttcacagca gcaactattaa tgccaaaaag tagacaaaac ctaaatgtcc attaactgat 180
 aagcaaaatg tggatatatc atacaatgga atattatgta gcccaacaataa tggcatggag 240
 tactacaaca tggatgagcc tcaaaaacgt tatgctaaat gaaaaaagtc agatatagga 300
 aaccacatgt catatgatcc catttatatg aaatagccag aaaaggcaag tcatagaaac 360

```

aagatagatc ggaaaaatggg ttggaggact acaaattggca ccagggatct ttgaagttga 420
tggaaatggg ctaaaatcag actgtggntg tggttgaaca agtctgtaaa tttaccaaaa 480
tgcgttaata ca 492

```

```

<210> 90
<211> 390
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> 106, 184, 206, 209, 234, 314
<223> n = A,T,C or G

```

```

<400> 90
tcgagcggcc gcccgggcag gtacaagctt tttttttttt tttttttttt ttttctaaca 60
gttctctgtt ttattgcaat acagcaaagt ctgggttaata ttaagngata tcaacataaa 120
gtattggtga ggagtccttt gtgacatttt ttaccatccc accttaaata tttctgtgca 180
aaanaatcca catcattgtt tgggtancana ggatctctta aaaagttccc taanacactg 240
agggcataaa accaaacaaa ataaaataag gagtgatagg ctaaagcagt atcttcccct 300
ccatccacat ttgncaagca ttatattcta accaaaaaat gatcacacca ggccatgcaa 360
aactgtccaa tattaccgag aaaaaaccct 390

```

```

<210> 91
<211> 192
<212> DNA
<213> Homo sapiens

```

```

<400> 91
agcgtggtcg cggccgaggt ctgtcaatta atgctagtcc tcaggattta aaaaataatc 60
ttaactcaaa gtccaatgca aaaacattaa gttggtaatt actcttgatc ttgaattact 120
tccgttacga aagtccttca cattttttcaa actaagctac tatatttaag gcctgcccgg 180
gcgcccgctc ga 192

```

```

<210> 92
<211> 570
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> 519, 559
<223> n = A,T,C or G

```

```

<400> 92
agcgtggtcg cggccgaggt ctgacaacta acaaagaagc aaaaactggc atcttggaca 60
tcctagtatt acacttgcaa gcaattagaa cacaaggagg gccaaaggaa aagtttagct 120
ttgaatcact tccaaatcta ctgattttga ggttccgcag tagttctaac aaaacttttc 180
agacaatggt aactttcgat taagaaagaa aaaaacccca aacatcttca ggaattccat 240
gccaggttca gtctcttcca gtgagccgcg ttgctaaaag tccacgtgca ccattaatta 300
gctgggctgg cagcaccatg taaaaagaag cctattcacc accaaccaca cagactagac 360
atgtaaagta ggatcaagta atggatgaca accatggtcg tggaatatgg tcaatgagag 420
tcagaaaagt acaggcacca gtacaagcag cagataacag aattgacggg ccaaaggata 480
aaaataggct tattttaata ggatgctaca gaacacatnc acttctaatt ggaagctgct 540

```

ttacactggg tggcattgna ccatatgcat

570

<210> 93

<211> 446

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> 328, 389

<223> n = A,T,C or G

<400> 93

```
tgcgagcggcc gcccgggcag gtccagggtt ttatttagtt gtgtaatctt ggacaagtta 60
cctaactttt ttgagctctga atatatattaa tctgcaaaat gagaatcatg ataatacgtc 120
ataggcttaa ttaggaggat taaatgaaat aatttatagg tggtgccatg gttacatata 180
agtattagta gtttaattctt ttcctttgtt tactttttata gtatagggtg gatgaagggt 240
ccagtatagg caaaaatact acttgggggg aaagtagagt gtgatacttt atttgaaatg 300
ttccctgaat ctgatcttta ctttttgnta ctgctgcact acccaaatcc aaattttcat 360
cccaacattc ttggatttgt gggacagcng tagcagcttt tccaatataa tctatactac 420
atcttttctt acttttgtgc tttttg 446
```

<210> 94

<211> 409

<212> DNA

<213> Homo sapiens

<400> 94

```
cgagcggccg cccgggcagg tccatcagct cttctgctta gaatacgagg cagacagtgg 60
agaggtcaca tcagttatcg tctatcaggg tgatgaccca agaaagggtga gtgagaagggt 120
gtcggcacac acgcctctgg atccacccat gcgagaagcc ctcaagttgc gtatccagga 180
ggagattgca aagcgccaga gccaacactg accatgttga aggcgttctc tccaggctgg 240
attcactgca ctcggaagaa ttctgcccag ggaatttagt gtgggggtac caggaccagt 300
ttgtcttgat cttgagaccc ccagagctgc tgcattccata ggggtgttgc ggactacacc 360
tggcctgcct tgcagtcatt ctttcttata tgttgaccca tttgcccga 409
```

<210> 95

<211> 490

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> 486

<223> n = A,T,C or G

<400> 95

```
tgcgagcggcc gcccgggcag gtccactctt tttgcagctt ccacacactg cacctaccta 60
ctacctctct tccatgctta actgggttta gaaagggtgag ctatgcgtag aagaactact 120
tgggatattc aagtgtctga ttggaacgat aagcctatag ataacagtct gaagctgcaa 180
gggagacttt gttagttcac tactataaac aggtaaacta cctgtttgta cttgatatag 240
tgcatatgaa atgactgatt taatacaaaa ctacagaaca tgcaaaattt tttctgagat 300
gttaagtatt acttcagtgg agaacaaaaa ttacttaacc tttcgctaata gcatgtagta 360
ccagaaagca aacatggttt tagcttctct tactcaaaat atgaacatta agtggttgtg 420
```

aattttgtct gccaaagtgg tcaaaaaata cattataaat aacctaagtt aaaaaaaga 480
aactgngaac 490

<210> 96
<211> 223
<212> DNA
<213> Homo sapiens

<400> 96
agcgtgggtcg cggccgaggt ctggaagccc accctaggac ttgaatggca ctttgcctt 60
tctctgccag taatgcaatc caacacaata tgctacaggg aaaacagaat ttccacgggtg 120
ccgccctctg gtacaaggga aacagcacgc aaagcaaaag gccacagagg gtcacctgag 180
aatccagtac aactaagcga ggacctgccc gggcgggccgc tcg 223

<210> 97
<211> 527
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> 404, 436, 451, 476
<223> n = A,T,C or G

<400> 97
tcgagcggcc gcccgggcag gtctgtgcag gagacactga agtgggtagt gtccataatc 60
tttttagcct gttgctgaaa ttccagttgt actccttcaa accaaaatgc ttacaggatc 120
atgggaaagc ctcggttgca gaaatcaaga caggcaagtg ggaagataac tcggctttga 180
ggttaaacag atctgggttc aaagcatagt ttactctct gtcttggtgaa gtgtcctggg 240
tgaagtcatt tcctctcttg aatttcagag aggatgaaaa tataaaaagt ataataacta 300
tcttcataat ctttgtgagg attaaagaag acgaagtgtg tgaaaagcta agcacagagc 360
aggcattcta caataagtag ttattatttt tggaaccatc ccgnccctag cccagccca 420
attaccttct cttagnctct tcatatcgaa ngccgtaatc ttgaccttct cttgcnactg 480
gattgggtgct ggttgatgcc caaacttccc gagatgctgt ctgggaa 527

<210> 98
<211> 514
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> 455
<223> n = A,T,C or G

<400> 98
tcgagcggcc gcccgggcag gtctggctcc catggccctt ggggtggcct gactctgtca 60
ctattcctaa aaccttctag gacatctgct ccaggaagaa ctttcaacac caaaattcat 120
ctcaatttta cagatgggaa aagtgtattct gagaccagac cagggtcagg ccaaggtcat 180
ccagcatcag tggctgggct gagactgggc ccagggaacc ctgtctgctc ctctttttcc 240
cagagctgtg agttctctag ccaaggctgc actcttgagg gagagccagg aagcatagct 300
gaggccatga caacctcact cttcacctga aaatttaacc cgtggcagag gatccaggca 360
catataggct tcggagccaa acaggacctc ggccgcgacc acgctaagcc gaattccagc 420
acactggcgg ccgttactag tggatcccga gcttnggtac caagcttggc gtaatcatgg 480

gcatagctgg ttcttggggg gaaaatggta tccg

514

<210> 99

<211> 530

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> 430, 522

<223> n = A,T,C or G

<400> 99

```
tcgagcggcc gcccgggcag gtctgaagaa acagggtataa atttggcagc cagtaatttt 60
gacagggaag ttacagcttg catgacttta aatatgtaaa tttgaaaata ctgaatttcg 120
agtaatcatt gtgctttgtg ttgatctgaa aaatataaca ctggctgtcg aagaagcatg 180
ttcaaaaata tttaattcac ttcaaaatgt catacaaatt atgggtggtt ctatgcaccc 240
ctaaagcttc aagtcattta gctcaggtac atactaaagt aatatattaa ttcttcag 300
acagtgggtg ttcatacat tgacatttgc ataccctaga ataatttaag aaagacatgt 360
gtaatattca caatgttcag aaaagcaagc aaaagggtcaa ggaacctgct ttggttcttc 420
tggaatggg ctcatatcag cttcataaac attcattcta caaaatagta agctaaccat 480
ttgaaccca atttcagat taagcatatt ttctcataaa tnatgaagcc 530
```

<210> 100

<211> 529

<212> DNA

<213> Homo sapiens

<400> 100

```
agcgtggtcg cggccgaggt ccaggcacgg tggcttatgt gtgtaatccc agcacttggg 60
gaggctgagg gaggtggatc acttgagtc aggagtttga gaccagtctg ggcaacatgg 120
cgaaacttca tcactaccaa agaagaaaaa aattagccag gtgtggtggt gtatgcctgt 180
agtcccagat actctggtgg ctgaggtgag aggatagctt gagcccagga aattgaggct 240
gcagtgaact atgattgcac tactgtgtct cagcttgggc aacagagtga gatcttgtct 300
ccaaaagtcc ttgaaggatt ttaggaagtt gttaaaagtc ttgaaacgat gtttgggggc 360
atgttagggg tcttgaatgt ttaattcctc taataactgc ttattcaaga gaagcatttc 420
tgactgggtg cggggcagtg gcttcatgcc ccataatccc agtactttgg gaggctgaag 480
caggaacatt gcttgagccc aggacttcaa gaacagcctg ggtaacata 529
```

<210> 101

<211> 277

<212> DNA

<213> Homo sapiens

<400> 101

```
tcgagcggcc gcccgggcag gtccgaggaa gaggatggaa actgaggagt ccaggaagaa 60
gagggaaacga gatcttgagc tggaaatggg agatgattat attttggatc ttcagaagta 120
ctgggattta atgaatttgt ctgaaaaaca tgataagata ccagaaatct gggaaggcca 180
taatatagct gattatattg atccagccat catgaagaaa ttggaagaat tagaaaaaga 240
agaagagctg agaacagacc tcggccgcga ccacgct 277
```

<210> 102

<211> 490

<212> DNA

<213> Homo sapiens

<400> 102

```
gcgtgggtcgc ggccgaggtc tgacggcttt gctgtcccag agccgcctaa acgcaagaaa 60
agtcgatggg acagttagag gggatgtgct aaagcgtgaa atcagttgtc cttaatTTTT 120
agaaagatTT tggtaaactag gtgtctcagg gctgggttgg ggtccaaagt gtaaggaccc 180
cctgccctta gtggagagct ggagcttgga gacattaccc cttcatcaga aggaatTTTT 240
ggatgtTTTT ttgggaagct gttttgggtcc ttggaagcag tgagagctgg gaagcttctt 300
ttggctctag gtgagttgtc atgtgggtaa gttgaggtta tcttgggata aagggtcttc 360
tagggcacia aactcactct aggtttatat tgtatgtagc ttatattttt tactaagggtg 420
tcaccttata agcatctata aattgacttc tttttcttag ttgtatgacc tgccccgggc 480
ggccgctcga                                     490
```

<210> 103

<211> 490

<212> DNA

<213> Homo sapiens

<400> 103

```
gagcggccgc ccgggcaggt ccaaaccagc ttgtcataa gtcattaacc aaatccatta 60
taggtaatTT gttcagttca atgtttacia ttcttatgga aaaaatttagc aacacacaca 120
tttaaaacgt gtgcatttac ctttgcgtag gtgcttaaaa tacatatttc tatttcaaga 180
tgacatttaa aaattattct aatatatcag cagcaaaaat ataatttgca attacaaaaa 240
actaaactag aatccttaag ttattctcat gtttacagtt gtgattcttt aataaatact 300
attatgcagc tctattgttt aagctttctg gatttgggtt aaacacatgc atatatattg 360
tcaattgtgg gaagctttac aagttatatt ccatgcactt tttggacaga gttctaacag 420
agccagccag tccacaaaaac aggcaagaca aaagttgaat taactggggc aaaataggac 480
tcttatgcaa                                     490
```

<210> 104

<211> 489

<212> DNA

<213> Homo sapiens

<400> 104

```
cggtggtcgc gccgaggtcc aggtcgtgtc cgaactcctg accttgtgat ctgcccgcct 60
cggcctccca aagtgttggg attacaggca tgagccactg cgcccgaccg agttgaacat 120
ttaatgtcag actaggccag agttttctcaa tctttttatt ctcaattccc aaaggagccg 180
ttggagatTT tccoctcaat ctctctcctt catgaaattt cataccacia atatagtatg 240
ttttatttat gtactgtgac cttttgaagg atcaciaaacc aatataatag tttttctttt 300
taacccgtca aggaccaagt ttttgcccct gttggaaatg cataaactgg actgatgaat 360
tggtatagat ggctttttatc atgaggatca gaaaaacttg aaattccttg gctacgacac 420
tccatattta tcaccgtata gggaggacct tggtatgggg aagtagaaac acttctacac 480
tttacagca                                     489
```

<210> 105

<211> 479

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> 142, 453

<223> n = A,T,C or G

<400> 105
 gcgtggctgc gcccgaggtc tgactggctt cagccccaga agttgagctg gccttttagac 60
 aaaataattg cacctccctc tgcctgcttat tcccttccgt ttttcatttg agtgtgaaca 120
 gttagataaa atctgtggct gncctcttcca ccttgctcta gtttccattg ctgtgagcag 180
 gccctcctat gcccgcatt tagctacaat gctgtggact cacttgattc ttttctccg 240
 agctttgtct agaaatatgt gaaggtgagg ttaagtgtt ctctgtgtag atccacttag 300
 ccctgtctgc tgtctcgatg ggcgttgctt cgtctctcct ctcttccatc ctttccattt 360
 gcttctcacc accttctggc ttcttttctt aatgcaataa aggcagtttc taacaaagaa 420
 agaatgtggg ctttgagatt agacagacct ggnnttaaat tctgcttctg gctctccaa 479

<210> 106
 <211> 511
 <212> DNA
 <213> Homo sapiens

<400> 106
 tcgcggccga ggtccaaaac gtggattcca atgacctgcc ttgagccgc ggttgccagg 60
 agttggacct gcagtagtat ggaagctca cggcctaaat accgactgcc ctctgacccc 120
 accgtccagc gattctagaa catttctagt aggaaagaca tagcaaggga ttttcatgat 180
 tgggaaatac tgggagacaa gctgaagatt tgtaagggc tatgcttctg tcatctttta 240
 ggtattttaag gctactcctt tagctagcta ctttgagctg tttaaagtga ctatctccct 300
 acacagagtt acacaatgag catctctgaa agagaatatt accctggatt tccaaagatg 360
 tactctaaca ggatgaccag gcaaaagggtg acccgggga ggagtctgtt ataacactcg 420
 gaccacatg ttctcaaggc acttcagaac tttgggaaat cattttgtac cggatcctca 480
 gaaagcattt atggaaatac acatccttta g 511

<210> 107
 <211> 451
 <212> DNA
 <213> Homo sapiens

<400> 107
 ggccgcccgg gcaggtccag aatatcaaatt caaaagggtca caaatgttca ctctctctc 60
 caccctctta catattggat cttcaattgc aatagggagt gtaagatggg catttttagag 120
 acgtagttgc atcagcagaa gcaaaccat cttatacaaa tgggttttg ggataggaaa 180
 aggtgctaa aaattcacaa gtcaccattc cccagaagca atgaatagcc gtagaagacc 240
 aaggagatc aacaagtttc caaagtgtc aagccagaga tttggccctt ccaaaatacc 300
 accaggacgc ctggaccctg gggctctccg catgtcacca ctgactgcca ggatgctgct 360
 gcacctccct tcttgagac acaacagaga gacagtgaag tcaccaaga ctgggatcat 420
 cagaggctcc tcatgcttgc tacagagaag c 451

<210> 108
 <211> 461
 <212> DNA
 <213> Homo sapiens

<400> 108
 ccgcccgggc aggtcctgaa aacattcaga ctaatcaaaa tgggtactact gtaacttctt 60
 ataatacata atataaaagt ttttgaaaga tatagacaca attaaccct aaacaacaca 120
 ctatctgatt ctcaaaagca atggctatgt aacaagatgt aaaaggacaa taacatatca 180
 aagaactttc acacacctaa agatagcatt tagcagcaag ttagtcagac aaaacaaaca 240
 caaatatttt cacatttcct atgtttgtt ttaactttac ttcataaagc cactgataat 300
 tgaggtttct ttcaagtata agatttctaa aattaaaaac tgtttttgac atatttttat 360

```

aaagaaataa aaagcaaaac gcaatccaac tatttatatg agtccctctt ctccaacagc 420
tttagatggg tttctgagta cttttttaca cagaatattt t 461

```

```

<210> 109
<211> 441
<212> DNA
<213> Homo sapiens

```

```

<400> 109
ggccgcccgg gcaggtctga ttataagaga aagaaatcca gtgacacgag ggcaggcagg 60
ccccgctctg ctctgatcga gaaaagcttc ctgatgtcag ggagatggaa ctgccaccat 120
cagaaccatg gcactttggg tgaaggtgtg tcagcgacca agggggcagg aaatgggcag 180
tgactaaggg ggcaggaaac aggcaggcac atggcaagggt tctcccagcc catcagccca 240
gtgatggcct cgattttgaa gctgcactac tgtctgaaaa gcacaattac tggtgactct 300
taacaaactt cagcatactg gggaaggaga ctgtcaagta actgaattgg aaagatgaaa 360
aagaaccatc tctaaaagtt gatgcttgtc agaagaataa cctcctttgt gcaagtcttg 420
caacatcttc attcaaccac a 441

```

```

<210> 110
<211> 451
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> 260, 361
<223> n = A,T,C or G

```

```

<400> 110
ggtcgcggcc gaggtctggg gaaggggtga gaatccctgg gccttgccca gtcctgagct 60
ctgggtgtct gcagggaagc acagtgggtg gttagtgtta aagaaagcat ccagagaggt 120
aagaggggct tgggtagcac ctttgcctc tgtcacttcc gcaaaaactt cttgttgagg 180
aggaagatga gaaggttgac attgactttg gccttggtga agagtttcat gacagccaca 240
ccctcactct ggagctgcan gagatcctga tagtgaagct tgaaatcgct ccatgtccac 300
accaggaac ttggcattta cttcaaactt tcctgcctca tctcccggcg tgatgtcaaa 360
natgacgttt cttgaagtga gaggcgggaa agatcttcaa tttccaccaa agacaccctt 420
tttccaggaa gcttgagcaa caagtgtaat g 451

```

```

<210> 111
<211> 407
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> 26, 33, 36, 79, 105, 111, 133, 149, 186, 206, 220, 239, 245,
259, 336, 375, 383, 393
<223> n = A,T,C or G

```

```

<400> 111
ggcgcagctt cgacctgact tctttngagc agntgncact acccgtcttg aggaatgccg 60
actgcagaca gtggcccang gcaaagagtg tgcgtcatcg atganattgg naagatggag 120
ctcttcagtc agnttttcat tcaagctgnt cgtcagacgc tgtctacccc agggactata 180
atcctnggca caatcccagt tcctanagga aagccactgn ctctttaga agaaatcana 240

```

```

cacanaaagg atgtgaacng tgtttaatgt caccaaggga aaacatgaaa ccaccttctg 300
ccagatatcg ggacgttgcg tgcagatcaa gcacgnaagt gaagacgcgt gcatttcctg 360
ccttcctgta acgantgccc agntcaagaa gancctgatg gaaccct 407

```

```

<210> 112
<211> 401
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> 363
<223> n = A,T,C or G

```

```

<400> 112
tcgcggccga ggtcggccga ggtctgacat ctgttgctctg tgataaccac ttctgtattg 60
cgtcttaacc acttctgtat tgtgtggttt taactgccta aggcggcaat gggcagtggg 120
cccttttccc ttaggatggg tatcaattca acaatatatta taaggcattt actgtgtgct 180
aagcatttg aagaccagc ctacaaaata agacatagtt cctgccctcc aggccagcag 240
agggaggcac aaataccag gaatctctga tgggtgtgaa gtgcggtcgt gggccacaga 300
aaatgaccgt catggagacc ctgctaaagg tcggaccctg agcccaaagg ggtattcaga 360
agnggagatg attttgcccc cactcataga tgggtggcaa a 401

```

```

<210> 113
<211> 451
<212> DNA
<213> Homo sapiens

```

```

<400> 113
gtcgcggccg aggtccatat taaaaagtcc atcataaaca aagactcctc ctcatgggat 60
gaatatgctc catatgcccc taatgggtgca taacggactt agaaattcca atgagtctta 120
gggttgaaat ttccaatgac ctgagcaagg cagctcccta tagcttctgga ataacatttt 180
acaccagag ttcaggctta aacagaccta tcaacacaat tatttttcgga ttgtctgtct 240
agaaaacggc aatgctcaaa ggaatataaa taagggtggg gggacatatg cttccagcct 300
ggcctttctc catgtggtaa aaaacaatgg aatggctgtg ttaatttttt tttaatcttt 360
tctgaccttt actatgtttg gtaatggaaa taagtcaggg aaaacaaaat gaacagggtct 420
catcacttaa ttaatactgg gttttcttct t 451

```

```

<210> 114
<211> 441
<212> DNA
<213> Homo sapiens

```

```

<400> 114
ggccgccccg gcaggtccat cctgtcagag atgggagaag tcacagacgg aatgatggat 60
acaaagatgg ttactttct tacacactat gctgacaaga ttgaatctgt tcatttttca 120
gaccagttct ctggtccaaa aattatgcaa gaggaaggtc agcctttaa gctacctgac 180
actaagagga cactgttggt tacatttaat gtgcctggct caggtaacac ttaccctaa 240
gatattggag cactgctacc cctgatgaac atgggtgatt attctattga taaagccaaa 300
aagttccgac tcaacagaga aggcaaaca aaagcagata agaaccgtgc ccgagtagaa 360
gagaacttct tgaaacttga cacatgtgca aagacaggaa gcagcacagt ctcggcggga 420
ggaagaaaaa aagaacagag a 441

```

```

<210> 115

```

<211> 431
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 317
 <223> n = A,T,C or G

<400> 115
 gccgcccggg caggtccatt ggcggtgaca aaaggaaaag aagcaaagag actcagtcca 60
 taatgctgat tagttagaag aaagggctag gattgagaaa gtaccaggaa cttttaatta 120
 tttaaaagag aatgctgact gttaatgttt taaatcttac tggtcaaagtg tactaatatg 180
 aattttttacc ctttgtgcat gaatattcta aacaactaga agacctccac aatttagcag 240
 ttatgaaagt taaacttttt attataaaaa ttctaaacct tactgtcctt ttaccaggaa 300
 catgacacac tattttancat cagttgcata cctcgccaat agtataattc aactgtcttg 360
 cccgaacaat catctccatc tggaagacgt aagccttttag aaacacattt ttctattaat 420
 ttctctagaa c 431

<210> 116
 <211> 421
 <212> DNA
 <213> Homo sapiens

<400> 116
 gtcgcggccg aggtccagaa atgaagaaga agtttgcaga tgtattttgca aagaagacga 60
 aggagagtg gtgtcaaate tttgacggca cagatgcctg tgtgactccg gttctgactt 120
 ttgaggaggt tggtcatcat gatcacaaca aggaaccggg gtcggtttat caccagttag 180
 gagcaggacg tgagcccccg cctgacacct ctgctgttaa acaccccagc catcccttct 240
 ttcaaaaagg atcctttcat aggagaacac actgaggaga tacttgaaga atttggattc 300
 agcccgcgaa gagatttatc aagcttaact cagataaaat cattgaaagt aataaggtaa 360
 aagctaagtc tctaacttcc aggccacggg ctcaagtga tttcgaatac tgcatttaca 420
 g 421

<210> 117
 <211> 489
 <212> DNA
 <213> Homo sapiens

<400> 117
 agcgtggtcg cggccgaggt aaggctgcga ggttgtggtg tctgggaaac tccgaggaca 60
 gagggctaaa tccatgaagt ttgtggatgg cctgatgatc cacagcggag accctgttaa 120
 ctactacgtt gacactgctg tgcgccacgt gttgctcaga cagggtgtgc tgggcatcaa 180
 ggtgaagatc atgctgccct gggacccaac tggttaagatt ggccctaaga agcccctgcc 240
 tgaccacgtg agcattgtgg aacccaaaga tgagatactg cccaccaccc ccatctcaga 300
 acagaagggt gggaagccag agccgcctgc catgccccag ccagtcccca cagcataaca 360
 gggctctcctt ggcagacctg cccgggcggc cgctcgaaag cccgaattcc agcacactgg 420
 cggccgttac tagtgatcc cagctcggtta ccaagcttgg cgtaatcatg gtcataagctg 480
 gtttcctgt 489

<210> 118
 <211> 489
 <212> DNA
 <213> Homo sapiens

<400> 118
 tcgagcggcc gcccgggcag gtattgaata cagcaaaatt ctatatacaa agtgacctgg 60
 acctgctgct tcaaaacatg atccttttctt actaatatct tgatagtcgg tccatagagc 120
 attagaaagc aattgactct taaataaaca gaaaagtgcc taatgcacat taaatgaatg 180
 gcctaactac tggaacttta gtagttctat aagggtgatta acataggttag gatccagttc 240
 ctatgacagg ctgctgaaga acagatatga gcatcaagag gccattttgt gcaactgccac 300
 cgtgatgccca tcgtgtttct ggatcataat gttcccatta tctgattcta gacacaccac 360
 aggaatatca gtggggtcag aggttagctt agctgcttgc tgggctagaa cagatatcac 420
 tccagcatgc tcacttgaca gggccccgcg gcaaccaga ttaagtcctt gtgaatctgt 480
 gcacaggga 489

<210> 119
 <211> 181
 <212> DNA
 <213> Homo sapiens

<400> 119
 taggttccag agacttttgg cccaggagga atatttactt ttagctctgg acatcattac 60
 aaaaaggaat atttcccaaa cctcttcaga ccgagaatac atgggtaaaa ttattaaata 120
 gttgtataat aaaaataatt ttttccttaa aaaaaaaaaa aacctcggcc gcgaccacgc 180
 t 181

<210> 120
 <211> 489
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 422, 487
 <223> n = A,T,C or G

<400> 120
 gcgtggctgc ggccgaggtc catttaaaac aaagaaaaat actaaagcca ctagtaaaca 60
 tctgatgtgc aaaatacaac atcctctagt tggctttatg ccattattac ataagctcca 120
 aatagctcat cttaaattaa aaagaaaaag tggctgtccc atctctgctg cataaatcag 180
 attttttttt aaaggtttag agtactttta ggaagggaag ttcaaaactg ccagtgaat 240
 tcacagagaa tacaaattta gcaatttaat ttcccaaagc tctttgaaga agcaagagag 300
 tctctcttct taatgcagtg ttctcccaag aggaactgta attttgcttg gtacttatgc 360
 tgggagatat gcaaaatgtg tttttcaatg tttgctagaa tataatggtt cctcttcagt 420
 gnctgggttca tcttggaact catgggttaa gaaggacttc ttggagccga actgcccggg 480
 cgggccntt 489

<210> 121
 <211> 531
 <212> DNA
 <213> Homo sapiens

<400> 121
 cgagcgccgc cccgggcagg tggccagcgc tgggtcccgca gacgccgaga tggaggaaat 60
 atttgatgat gcgtcacctg gaaagcaaaa ggaaatccaa gaaccagatc ctacctatga 120
 agaaaaaatg caaactgacc gggcaaatag attcgagtat ttattaaagc agacagaact 180
 ttttgacat ttcatccaac ctgctgctca gaagactcca acttcacctt tgaagatgaa 240

```

accagggcgc ccacgaataa aaaaagatga gaagcagaac ttactatccg ttggcgatta 300
ccgacaccgt agaacagagc aagaggagga tgaagagcta ttaacagaaa gctccaaagc 360
aaccaatggt tgcaactgat ttgaagactc tccatcgtat gtaaaatggg gtaaactgag 420
agattatcag gtcccgagga ttaaactggc tcattttctt gtatgagaat ggcatcaatg 480
gtatccttgc agatgaaatg ggcctaggaa agactcttca acaattttct t 531

```

<210> 122

<211> 174

<212> DNA

<213> Homo sapiens

<400> 122

```

tcgagcggcc gcccgggcag gtctgccaac agcagaggcg gggcctccgg catcttcaaa 60
gcacctctga gcaggctcca gccctctggc tgcgggaggcg gtctgggggc tcctctgagc 120
tcggcgagcaa agcagatggt atttctctcc cgcgacctcg gccgcgacca cgct 174

```

<210> 123

<211> 531

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> 152, 373, 482, 494, 496, 502

<223> n = A,T,C or G

<400> 123

```

agcgtggctg cggccgaggt cctcaaccaa gagggttgat ggcctccagt caagaaactg 60
tggetcatgc cagcagagct ctctcctcgt ccagcaggcg ccatgcaagg gcaggctaaa 120
agacctccag tgcattcaaca tccatctagc anagagaaaa ggggcactga agcagctatg 180
tctgccaggg gctagggggt cccttgacga cagcaatgct acaataaagg acacagaaat 240
gggggagggt ggggaagccc tatttttata acaaaagtcaa acagatctgt gccgttcatt 300
ccccagaca cacaagtaca aaaaaaccaa tgcttggtgt ttctgccaag atggaatatt 360
cctccttcct aanttcaca catggccgtt tgcaatgctc gacagcattg cactgggctg 420
cttggtctctg tgggtctgggc accagtagct tgggccccat atacacttct cagttcccac 480
anggcttatg gccnangggc angctccaat tttcaagcac cacgaaggaa g 531

```

<210> 124

<211> 416

<212> DNA

<213> Homo sapiens

<400> 124

```

tcgagcggcc gcccgggcag gtccatctat acttttctaga gcagtaaattc tcataaattc 60
acttaccaag cccaggaata atgactttta aagccttgaa tatcaactaa gacaaattat 120
gccaattctg attttctaca tatacttaga ttacacaaag ataaagcttt agatgtgatc 180
attgtttaat gtagacttat ctttaaagtt tttaattaaa aactacagaa gggagtaaac 240
agcaagccaa atgatttaac caaatgattt aagagtaaaa ctactcaga aagcattata 300
cgtaactaaa tatacatgag catgattata tacatacatg aaactgcaat tttatggcat 360
tctaagtaac tcatttaagt acatttttgg catttaaaaca aagatcaaat caagct 416

```

<210> 125

<211> 199

<212> DNA

<223> n = A,T,C or G

<400> 128

```
cgtggtcgcg gccgaggtgc tttttttttt tttttttttt tttttttttt tgctgattta 60
ttttttctnt ttattgttac atacaatgta taaacacata aaacanaaaa cagtagggat 120
cctctaggat ctctagggan acagtaaagt anaaagaggt ctcanaaaaca ttttttttaa 180
gtacaagaca ttcagnctc ggcccaaagg cgtaaaagggt ttanagccag canatagctg 240
nactaaaggc tccgtctntn tccccanagc caggacaacc ccagggagct ntccattagc 300
agccagtcca cgcaggcagg atgctgcgga aaaagctcta tgctganaac attccccttg 360
atggaaagaa gggcaacaca aaaggggtaa ctaanagctc cttcctctcg tgagggcgac 420
aactgaggaa cagaaaagga gtgtcccatg tcaactttga cccctccc 469
```

<210> 129

<211> 419

<212> DNA

<213> Homo sapiens

<400> 129

```
gcgtgggtcgc gccgaggtgc tgattttcat ttaaataattt cagagctata gcatttgcct 60
ccatgctcaa atccacacca ttggggctta agccgctcat gccaacatta gcaaattgaca 120
tgcagtttaa tccagagatc actgcttctg ggctgatgca tgccaacaca ctggcgatgat 180
ccacgttatg tgcatttttc ttcaacttag tgggagaatc aatttttact ccaaggcttc 240
ttagttgctt aagagttgca ttaaggacac aatctttgtc caccagtctt gaatgatgtg 300
tttttttctt tgtatggtaa acgttttggg ttctggtgca ttcattgactg ataattactg 360
ctttggtaga cggctgctca agtttccttg gaggaactat ttaatagggtg gggtacttg 419
```

<210> 130

<211> 354

<212> DNA

<213> Homo sapiens

<400> 130

```
agcgtgggtcg cggccgaggt ccatctgagg agataaccac atcactaaca aagtgggagt 60
gacccgcgag agcacgctgt ggaattccat agttgggtctc atccctggtc agtttccaca 120
tgatgatggt cttatctcga gaggcggaga ggatcatgtc cggaactgc ggggtagtag 180
cgatctgggt taccagccg ttgtggccct tgaggggtgcc acgaagggtc atctgctcag 240
tcatggcggc ggcgagagcg tgtgtcgtg cagcgacgag gatggcactg gatggcttag 300
agaaactagc accacaacct ctctgccgc acctgcccg gcggcccgt cgaa 354
```

<210> 131

<211> 474

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> 421

<223> n = A,T,C or G

<400> 131

```
cgagcggcgc cccgggcagg tctggcagca gtttcctctg gaataattga cagctttgtg 60
ctgcctgact aaaatttgaa atgacaaccg ctgaatgtaa aatgatgtac ctacaatgag 120
agagatttag gaatactatc tgtcaatcca tagatgtaga aacaaaacaa actacagaat 180
gaaaacaaac ttatttttaa ccaaagaaac aaatgtatcc aaaatatagt ccatgatata 240
```

```

tttgattact agtataacca cagttgaaaa cttaaaaaaa aaaattgaca ttttttgtaa 300
tgggtactaa tggatttata aaaggtttct gtttccaaag atgttattgg ggtccacata 360
ttccttgaag acttcagcat cccaaagccc gacatcagag atactttcct ttagccattg 420
nttcccgtaa cttgcccact ccatggtgat gtgacaggct tcccttcatt agca 474

```

```

<210> 132
<211> 474
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> 403
<223> n = A,T,C or G

```

```

<400> 132
ggccgaggtg gggaattcat gtggaggtca gagtggaaag aggtgtgaga ggggtccagca 60
gaaggaaaca tggctgccaa agtgtttgag tccattggca agtttggcct ggccttagct 120
gttgaggag gctgtgtgaa ctctgcctta tataatgtgg atgctgggca cagagctgtc 180
atctttgacc gattccgtgg agtgcaggac attgtggtag gggaaggagac tcattttctc 240
atcccggtggg tacagaaacc aattatcttt gactgccgtt ctcgaccacg taatgtgcca 300
gtcatcactg gtagcaaaga ttacagaat gtcaacatca cactgcgcac cctcttcccg 360
cctgtcgcca gccagcttcc tcgcatcttc accagcatcg ganaggacta tgatgaaccg 420
tgtgtcgccg tccatcacia ctgagatcct caagtcagtg gtggctcgct ttga 474

```

```

<210> 133
<211> 387
<212> DNA
<213> Homo sapiens

```

```

<400> 133
tgctcgagcg gccgccagtg tgatggatat ctgcagaatt cggcttagcg tggtcgcggc 60
cgaggtctgc gggcccctta gcctgccctg cttccaagcg acggccatcc cagtagggga 120
ctttcccaca ctgtgccttt acgatcagcg tgacagagta gaagctggag tgcctcacca 180
cacggcccgg aaacagcggg aagtaactgg aaagagcttt aggacagctt agatgccgag 240
tgggcgaatg ccagaccaat gatacccaga gctacctgcc gccaaacttg tgagatgtgt 300
gtttgactgt gagagagtgt gtgtttgtgt gtgtgttttg ccatgaactg tggccccagt 360
gtatagtgtt tcagtggggg agaactg 387

```

```

<210> 134
<211> 401
<212> DNA
<213> Homo sapiens

```

```

<400> 134
ggccgccccg gcaggtctga tgaagaacac ggggtgtgatc cttgccaatg acgccaatgc 60
tgagcggctc aagagtgttg tgggcaactt gcatcggctg ggagtcacca acaccattat 120
cagccactat gatgggcgcc agttcccaa ggtggtggg ggctttgacc gagtactgct 180
ggatgctccc tgcagtggca ctggggtcat ctccaaggat ccagccgtga agactaacia 240
ggatgagaag gacatcctgc gcttgtgtct acctccagaa ggaagttgct cctgagtgtc 300
attgactctt gtcaatgcga ccttcaagac aggaggctac ctggtttact gcacctgttc 360
tatcacagtg agacctctgc catggcagaa caggggaagc t 401

```

```

<210> 135

```

<211> 451
 <212> DNA
 <213> Homo sapiens

<400> 135
 ggtcgcggcc gaggtctgtt cctgagaaca gcctgcattg gaatctacag agaggacaac 60
 taatgtgagt gaggaagtga ctgtatgtgg actgtggaga aagtaagtca cgtggggcct 120
 tgaggacctg gactgggtta ggaacagttg tactttcaga ggtgaggtgt cgagaaggga 180
 aagtgaatgt ggtctggagt gtgtccttgg ccttggctcc acaggggtgtg ctttcctctg 240
 gggccgtcag ggagctcatc ccttgtgttc tgccaggggtg gggtaaccggg gtttgacact 300
 gaggagggtg acctgctggc tggagcggca gaacagtggc cttgatttgt cttttggaag 360
 attttaaaaa ccaaaaagca taaacattct ggtccttcac aatgctttct ctgaagaaat 420
 acttaacgga aggacttctc cattcaccat t 451

<210> 136
 <211> 411
 <212> DNA
 <213> Homo sapiens

<400> 136
 ggccgcccgg gcaggtctga atcacgtaga atttgaagat caagatgatg aagccagagt 60
 tcagtatgag ggttttcgac ctgggatgta tgtccgcgtt gagattgaaa atgttccttg 120
 tgaatttgtg cagaactttg acccccttta cccattatc ctgggtggct tgggcaacag 180
 tgagggaat gttggacatg tgcaggtggg tccctttgct gcgtatttgg tgcctgaggc 240
 tctgtggatt tcccctccat caatcatctt accctctcat cccoctcaga tgcgtctgaa 300
 gaaacatctc tggataaga aaatcctcaa gtcccaagat ccaatcatat tttctgtagg 360
 gtggaggaag tttcagacca tctgtctcta ttatatccga agaccacaat g 411

<210> 137
 <211> 211
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 186
 <223> n = A,T,C or G

<400> 137
 cggccgcccg ggcaggtcgg ttggtgcggc ctccattggt cgtgttttaa ggogccatga 60
 ggggtgacag aggccgtggt cgtggtgggc gctttggttc cagaggaggc ccaggaggag 120
 ggttcaggcc ctttgcacca catatcccat ttgacttcta tttgtgtgaa atggcctttc 180
 cccgntcaa gccagcacct cgtgaaact t 211

<210> 138
 <211> 471
 <212> DNA
 <213> Homo sapiens

<400> 138
 gccgcccggg caggtctggg ctggcgactg gcattccaggc cgtaactgca aatctatgct 60
 aggcggggtc tcccttctgt gtgttcaagt gttctcgact tggattotta actattttaa 120
 aaaatgcact gagtttgggt taaaaaccaa ccacaaaat ggatttcaac acagctctaa 180
 agccaagggc gtggccggct ctcccaacac agcgactcct ggaggccagg tgcccatggg 240

```

cctacatccc ctctcagcac tgaacagtga gttgattttt cttttttacaa taaaaaaaagc 300
tgagtaatat tgcataggag taccaagaaa ctgcctcatt ggaaacaaaa actattttaca 360
ttaaataaaa agcctggccg caggctgcgt ctgccacatt tacagcacgg tgcgatgcac 420
acggtgacca aaccacggag gcaagcttct ggcactcaca ccacgaccg c 471

```

```

<210> 139
<211> 481
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> 384
<223> n = A,T,C or G

```

```

<400> 139
gtcgcggccg aggtctgttc tttagctcag atttaaacct gctgtctctt ctttatttgc 60
agaatgaatt cccagttcct gagcagttca agaccctatg gaacgggcag aagttgggtca 120
ccacagtgcac agaaattgct ggataagcga agtgccactg ggttctttgc cctcccttca 180
caccatggga taaatctgta tcaagacggg tcttttctag atttcctcta cctttttgct 240
cttaaaactg cttctctgct ctgagaagca cagctacctg ccttctactga aatataacct 300
aggctgaaat ttgggggtgg atagcaggtc agttgatctt ctgcaggaag gtgcagcttt 360
tccatatcag ctcaaccacg ccgncagtc attcttaagg aactgcgcac taggactgat 420
gatgcatttt agcttttgag cttttggggg gtattctacc aaccaacagt ccatttgga 480
a 481

```

```

<210> 140
<211> 421
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> 372
<223> n = A,T,C or G

```

```

<400> 140
gtcgcggccg aggtttccca ttttaagaaa atagatcttg agattctgat tctttttcaa 60
acagtcccct gctttcatgt acagcttttt ctttacctta cccaaaattc tggccttgaa 120
gcagttttcc tctatggctt tgcctttctg attttctcag aggctcgagt ctttaataata 180
accccaaatg aaagaaccaa ggggaggggt gggatggcac ttttttttgt tgggtcttgtt 240
ttgttttgtt ttttggttgg ttgggttccg ttatttttta agattagcca ttctctgctg 300
ctatttccct acataatgtc aatttttaac cataattttg acatgattga gatgtacttg 360
aggctttttt gntttaattg agaaaagact ttgcaatttt ttttttagga tgagcctctc 420
c 421

```

```

<210> 141
<211> 242
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> 4, 6, 20, 31, 35, 39, 72, 94, 141, 142, 211, 222

```

<223> n = A,T,C or G

<400> 141

```
cgantngccc gcccgggcan gtctgtctaa nttntcang gaccacgaac agaaactcgt 60
gcttcaccga anaacaatat cttaaaccatc gaanaattta aatattatga aaaaaaacat 120
tgcaaaatat aaaataaata nnaaaaggaa aggaaacttt gaaccttatg taccgagcaa 180
atccaggtct agcaaacagt gctagtccta nattacttga tntacaacaa cacatgaata 240
ca 242
```

<210> 142

<211> 551

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> 15, 19, 32, 73, 110, 278, 405, 436, 473, 510

<223> n = A,T,C or G

<400> 142

```
agcgtggctcg cggcncgang tccacagggc anatattctt ttagtgtctg gaattaaaat 60
gtttgaggtt tangtttgcc attgtctttc caaaaggcca aataattcan atgtaaccac 120
accaagtgc aacctgtgct ttctatttca cgtactgttg tccatacagt tctaaataca 180
tgtgcagggg attgtagcta atgcattaca cagtcggttca gtcttctctg cagacacact 240
aagtgatcat accaacgtgt tatacactca actagaanat aataagcttt aatctgaggg 300
caagtacagt cctgacaaaa gggcaagttt gcataataga tcttcgatca attctctctc 360
caaggggccc gcaactaggc tattattcat aaaacacaac tgaanagggg attggtttta 420
ctggtaaate atgtgntgct aaatcatttt ctgaacagtg ggggtctaat cantcattga 480
tttagtggca gccacctgcc cggcgccgn tcgaagccca attctgcaga tatccatcac 540
actggcggcc g 551
```

<210> 143

<211> 515

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> 5, 286, 498

<223> n = A,T,C or G

<400> 143

```
cgagnggccc gcccgggcag gtatcttcac aaactcaaca aaggcactac atgagaacttc 60
acattccctt agtccaatag ctgacaaatt tttgcaacgt tctgcaatgc gaattaactc 120
ttcatcaagt ggccgtaatc catttgaca cactactagt tcaaccagtc tagggcatgt 180
cattcccaca cggccaagca catctttgct tactgatctc ccaaagtaca gatgggtggc 240
aggatattca tagcgaaaga aggggtcaaa ttcttcttca tataanaaaa aatacatcac 300
taagtttact ttgggtgaat gtctgatgaa agcatcccag ctactcttct gaatagtatg 360
gaagtgtgtc tgtccaggat tctcactgac tacatcaatg cgcaaagtgt ctaatcgaac 420
atgtttttca gaagacaatg caagtaacaa ctcatcactc aataagtggt aagttcaggg 480
ctagttctct taagccngna cactgatcag cacac 515
```

<210> 144

<211> 247

<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> 11, 20, 42, 115, 152, 165, 181, 195, 208, 221
<223> n = A,T,C or G

<400> 144
tgcattctct ntggatgcan acctgcccgt tggtagggac tntgctcaca cggaacatgg 60
acggttacac ctgtgccgtg ggtgacgtcc accagcttct ggatcatctc ggcgnggggtg 120
ttgtggaagg gcagactatc cacctccatg cncacgatgc ccganacgcc actccggact 180
ntgtgctgca ccaanatgcc cagcattnta tcttcaagca naggacttat cagggtcctt 240
ggcacac 247

<210> 145
<211> 309
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> 18, 155, 247
<223> n = A,T,C or G

<400> 145
cgtgggtcgc ggcccgangt ctgctgtaac aaaacaccat agtctgggca gctcatagac 60
aatggaattt tatttctcac gcttctggag gctggattcc aagatcaagg ttccaggaga 120
ctcagtgtct ggcaaggtct cggtttctgc ctcanagatg gtgccatctg gctgtgtcct 180
cacaagtagg aaggtgcaag aagctccctc caggctctgt ctgtaagaca ctgatcccat 240
tcatgaggg gaaacgtaat gacctaatca gccccagag accccacttc taacaccatc 300
accttgggg 309

<210> 146
<211> 486
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> 16, 97, 154, 244, 275, 322, 347, 349, 352, 357, 449, 460,
472
<223> n = A,T,C or G

<400> 146
agcgtgggtc gcggcncgac gtcctgtcca tatttcacag cccgagaact aatacaagat 60
gctgacatca tattttgtcc ctacaactat cttctanatg cacaataag ggaaagtatg 120
gatttaaatc tgaaagaaca ggttgtcatt ttanatgaag ctcataacat cgaggactgt 180
gctcggaat cagcaagtta cagtgttaaca gaagttcagc ttcggtttgc tcgggatgaa 240
ctanatagta tggtaacaa taatataagg aaganagatc atgaaccctc acgagctgtg 300
tgctgtagcc tcattaattg gntagaagca aacgctgaat atcttgnana angagantat 360
gaatcagctt gtaaaatatg gagtggaaat gaaatgctct taactttaca caaaatgggt 420
atcaccactg ctacttttcc cattttgcng gtaagatatn ttttctacct gngaaacgta 480
tttaag 486

<210> 147
 <211> 430
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 13, 26, 28, 289, 299, 352, 390, 399
 <223> n = A,T,C or G

<400> 147
 gccgcccggg cangttcgac attacntnga gttccatgat gtacaattct ttcacgaaaa 60
 acaatgaatg caagaatttg aggatctcct tactcctccc ttttacagat ggtctctcaa 120
 tcccttcttc ttctcttca tcttcatctt cttctgaacg cgctgccggg taccacggct 180
 ttctttgtct ttatcgtgag atgaaggtga tgcttctgtt tcttctacca taactgaaga 240
 aatttcgctg caagtctctt gactggctgt ttctccgact tcgcctttnt gtcaaacng 300
 agtcttttta cctcatgccc ctcagcttca cagcatcttc atctggatgt tnatttctca 360
 aagggtcac tgaggaaact tctgattcan atgtcgaana gcactgtgaa gttttctctt 420
 cattttgctg 430

<210> 148
 <211> 483
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 20, 24, 53, 55, 374, 381, 423, 431, 459
 <223> n = A,T,C or G

<400> 148
 cccgggcagg tctgtgttgn tttncaacgg gtgtcctccc cagcgtccag aananggaaa 60
 tgtggagcgg gtgatgatga cccctcgctg tcctgtcacc tcctgcacag cttcgtatgt 120
 gggctctggc tgggaccacc cgtacagggt gtgcacgttg tagtgctcca cgggggagct 180
 gtccggcagg atctgctgac tctccatgca cagagtcttg ctgctcaggc ccttgctcct 240
 agattccaaa tatggcatat aggggtgggt tatttagcat ttcatgtctg cagccctga 300
 cagatccatc cacaaaattt gatggctcat tcatatcaat ccacaatcca tcaaacttca 360
 agctcttctc tggntctcga nggtttgcat agaactcttc tatctctttc ttccaccacg 420
 canacctcgg ncgcgaccac gctaagccga attctgcana tatccatcac actggcgggc 480
 gct 483

<210> 149
 <211> 439
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 11, 359, 384, 402
 <223> n = A,T,C or G

<400> 149
 ctttcacgaa nacaatgaat gcaagaattt gaggatctcc ttactcctcc cttttacaga 60


```

tggctctctca atcccttctt ctctctcttc atcttcatct tcttctgaac gcgctgccgg 120
gtaccacggc tttctttgtc tttatcgtga gatgaagggt atgcttctgt ttcttctacc 180
ataactgaag aaatttcgct gcaagtctct tgactggctg tttctccgac ttgcctttt 240
tgcaaacgtg agtcttttta cctcatgccc ctccagcttc acagcatctt catctggatg 300
ttcatttctc aaagggctca ctgaggaaac ttctgactca catgtcgaag aagcactgng 360
agtttctctt catttgctgc aaanttgtct tttgctgggt gngctctcag accacccatt 420
tggctgcatg ggggctgac                                     439

```

<210> 150

<211> 578

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> 4, 15, 260, 336, 371, 430, 461, 535, 572

<223> n = A,T,C or G

<400> 150

```

ggcncgcccc ggcangtcca ctccactttt gagctctgag ggaatacctt caggaggggac 60
agggtcaggg agtcttgcca gctccgcagc agagattcac attcattcag agacttggtg 120
tccagtgaag tgccattgat cgcaacgatc ctgtctccca cagcaaggga cccttcttta 180
gcggcagggc ttccaggcag cacagcggca gcatacactc cattctccag actgatgcca 240
ctgtctttct gtccactgan gttgatgtgc agcggcgtga ccacctccc acccagggac 300
ttcctccgcc gcacgaccat gttgatgggc cccctnccca ttgaggagcg ccttgatggc 360
ctgcttcttg nccttggtga tgaagtccac atcgggtgatt ctccagacca gtcattgacc 420
cttaagcggg catcagcaat gcttcctttg gccactttag ngacaaatat gccacagtcc 480
ccgggaaaca agggtcattc acaccttctg gcatacaaaa cacctcggcc gggancacta 540
agccgaattc tgcagatata catcacactg gngggccg                                     578

```

<210> 151

<211> 503

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> 392, 464

<223> n = A,T,C or G

<400> 151

```

cgagcggccc gcccgggcag gtctgggaga tcagcgactg ctgccacgtg ccagaaaatg 60
gctcgtcctt tcaactacagc ggaatgcaat gaggggtgggt gagaagatga tgggtcggtt 120
atttcattcc ttttcttttt acaacttcac tttcagagac ttcagcgttc catgtctgct 180
gtgctgtgga acccagagtg ctcttgcttg gatggctgag aatcccttgg accctggaag 240
cacctactcc atgatggccc ggtatagtgc aggtcaata taatcttccc ggtatcttga 300
gttgataact cgttgccggt tcttttcttg cttaacctct ttctctgtga aaatctcatt 360
gaagcgcagt tctgaagcta ctgacagtct anatttgact ctcttgggaa gctcttcata 420
cagtgtgtat acatcatctc tcttaaccac aagttggagc catncttaaa cttcacctgg 480
tacatttggg taggggtggga ggc                                     503

```

<210> 152

<211> 553

<212> DNA

<220>

<222> 293, 432, 459, 481, 536

<400> 152

<210> 153

<211> 454

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> 198, $\bar{3}07$, 325, 347, 386, 389, 392, 415, 425

$\langle 223 \rangle$ n = A, T, C or G

<400> 153

tgcagcggt	cgcccgga	ggtccacta	gcatggctc	tctaaacacg	caactcagcg	60
aggggacccc	cttcacctct	ggcaagagag	ctgggtagat	cagaaacttg	gtgacacctg	120
gctagcacag	agcaggctca	cttgtcttg	tcccactacc	cagattcctg	cagacattgc	180
aaaccaaagt	aaggttgntg	aatgaccct	gtccccagcc	acttgttttg	gtatcatctg	240
ctctgcagt	gaatgcctgt	gtgtttgagt	tactctgca	tctgtatatt	tgagtataga	300
aaccgantca	agtgatctgt	gcatncagac	acactggggc	acctgancac	agaacaaatc	360
accttaacga	tctggaatga	aactgnganc	antgccgcgc	tgggtgggtc	tgganaaaact	420
gccgcttct	tgttgacct	tggccgcacc	acct			454

<210> 154

<211> 596

<212> DNA

<213> Homo sapiens

 $\langle 220 \rangle$

<221> misc feature

<222> 19, $\bar{3}3$, 37, 131, 377, 425, 439, 505

 $\langle 223 \rangle \quad n = A, T, C \text{ or } G$

<400> 154

agcgtgggtcg	cggccccgang	gcggcctcct	gantganggg	aagggacgtg	ggggcggcc	60
cggcaggatt	aacctccatt	tcagctaata	atgggagaga	ttaaagtctc	tcctgattat	120
aactggttta	naggtacagt	tccccctaaa	aagattattg	tggatgatga	tgacagtaag	180
atatggtcgc	tctatgacgc	gggcccccca	agtatcaggt	gtcctctcat	attcctgcc	240

```

cctgtcagtg gaactgcaga tgtctttttc cggcagattht tggctctgac tggatgggggt 300
taccgggtta tcgctttgca gtatccagtt tattgggacc atctcgagtt cttgtgatgg 360
attcacaaaa cttttanacc atttacaatt ggataaagtt catctttttg gcgcttcttt 420
gggangcttt ttggcccana aatttgctga atacactcac aaatctccta gaagccattc 480
cctaatactc tgcaattcct tcagngacac ctctatcttc aaccaacttg gactggaaac 540
agctttggct gatgcctgca tttatgctca aaaaatagtt cttggaaatt ttcata 596

```

```

<210> 155
<211> 343
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> 6, 12, 23, 44, 58, 86, 99, 279, 310, 319
<223> n = A,T,C or G

```

```

<400> 155
ctcganttgg cncgcccggg cangtctgcc tggtttttga ccgngcgagc tatttagnct 60
ctggctctgt ttccggagct caaggnaaaa atcttgaana actcgagcag cttctgtgga 120
tagccttggg tacacatact gccgagcata gccaatgtac tttctcaata gctgggtggg 180
aatgggatct attgtttctc caggaaccac ctttagtctt tctgataatg gcttctcaga 240
aactacttca agtacggaag tatttgaatc ttgactatnc atacgagcta ctgtggcact 300
gctaattggg tctctgctnt ccagctctta ttgcaatcac atg 343

```

```

<210> 156
<211> 556
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> 34, 375, 530
<223> n = A,T,C or G

```

```

<400> 156
tcgagcggcc cgcccgggca ggtctggcac cacncagatc gattaactgg ctcatctgat 60
ctcgtggccc ccaccctgga actgacttag cacaaaagga cacctcaatt ctttatgatt 120
tcatctccga cccaaccaat caacaccctt gactcactgg ccttccccct cccaccaaatt 180
tattcctaaa aactctgatc cccgaatgct cagggagatc gatttgagta ctaataagac 240
tccagtctcc tgcacaagca gctctgtgta ctcttcctct attgcaattc ctgtcttgat 300
aaatcggtc tgtgtaggcg gcggaagaag tgaacctgtt gggcggttac cacctctgtc 360
gtgtgtgaca gttgntttga atctctaatt gctcagtaca gatccacatg cagggttaagt 420
aagaagcttt tgaagaaaat ggaaagtctt aagtgatggc ttccaagaaa tcaaacctac 480
attaattagg gaacaacgga ctttacgtat cacaaatgaa gagactgaac aagtaaatca 540
acttggcctt ttctta 556

```

```

<210> 157
<211> 333
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature

```

<222> 18, 40, 55, 57, 60, 91, 97, 103, 110, 161, 173, 193, 195,
196, 214, 231, 233, 238, 263, 264, 266, 283, 284, 287, 297,
298, 323, 331

<223> n = A,T,C or G

<400> 157

```
ggtccacaaa aatatatnaa ataagctgga tatataaaan caaacactta acatngncan 60
cattccttca gttattcaaa ctactgata nctaacnggg agnagttggn attctggaag 120
acttcctaag ctaaaagtat atttacatat ttacaacaca ngtaaataa acngaagaac 180
tacttcaaat aangnngaaa ttccagaatt ctanagattt atagctatag ntnacaanta 240
tcaccaattg gtttgcaatc aannngccag cactacttat gannaangtt taactannaa 300
accaaaaagg gagaaaacct ggnagggaaa nat 333
```

<210> 158

<211> 629

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> 345, 565

<223> n = A,T,C or G

<400> 158

```
tcgagcggcc gcccgggcag gtctggtaca tttgtgcgag gtccggcact ctgttctcat 60
ccagtaagtg gtcgagccct ttctgcagaa ttgctgttaa atgttctcct aatagctgtt 120
tctccacaca agcaatcagt ggtttctgtg tgctgtggtc caagtaagtg attactctgt 180
ctccctcttc ttctaagcgt ttacttacat ggtaagata ttctggaacc tctctttcct 240
gcattaacct ttggccttcg gcagcatata agcaattagt ctcttccaaa aatttcagtt 300
caaatgaatc ttatataacc tgcaggtcag acagcatgcc caggagggt cgcgaacagg 360
ctccgggtcca cggcctcgcc gtcctctcgc cgctcgatca gcagtaggat tccatcaatg 420
gttttactct gaaccatttt atcactaata atatgggttc taaacagttc taatcccata 480
tcccagatgg agggcagcgt ggagttctgc agcacatagg tgcgggtcaa gaacaggaag 540
atgcttctga tcatgaatca tttgnctggc aatggctcctg ccagcacgtg gtaatctttc 600
ttttaaaaat aaacccttat ctaaacgtc 629
```

<210> 159

<211> 629

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> 33, 546, 576

<223> n = A,T,C or G

<400> 159

```
tcgagcggcc gcccgggcag gttctagagg ganaatctgg ctgatttggg aataaaatat 60
aatcgaatat tcaacaccat gaagataaat cttattttgg aaatctactg accttaatac 120
cccaagcttg ccctgaatac tttgattgga attggaatat atcaaaaaag gttagtattt 180
ttgtttagt taggatacta aaaggatatt agttacccaa gagatccaat ttgtttttct 240
gatgaatagt gttcagtaaa atgaagcagt cttaagagtg actaataatt tcaaagtgat 300
ttttcgtcta ttcttaatat tttttaatta tttattttta agagttttat accttgagca 360
gatacaatga tccgcttttag tgagaggaca atttctgatt gattgttttc tcttcaggcc 420
```

```

atctcacctc ttcattctct tgttacattt gaagcagttg atataatggg tttatacttt 480
aaaagataga catggtgccca tgaagtttgg ggaagttggg tgaattatcc cattctagtt 540
acagangagc tttccttaaa tgccctttac ttctangttt ggtcaagaag tcattttctg 600
agtaaaagtt attttcatat atgttgggg 629

```

```

<210> 160
<211> 519
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> 46, 309, 397, 430, 434, 471, 497
<223> n = A,T,C or G

```

```

<400> 160
tcgagcggcg cgcccgggca ggtctgctgg gattaatgcc aagtntttca gccataaggt 60
agcgaaatct agcagaatcc agattacatc cacttccaat cacgcggtgt ttgggtaatc 120
cacttagttt ccagataaca tacgtaagaa tgtccactgg gttggaaacc acaattatga 180
tgcaatcagg actgtacttg acgatctgag gaataatgaa tttgaagaca ttaacatttc 240
tctgcaccag attgagccga ctctcccctt cttgctgaag gactcctgca gttaccacta 300
caatcttana attgggcggg tcacagaata atctttatct gccacaattt taggtgctga 360
agaaataagc tcccatgctg cagatccatc atttctnctt taagcttacc ttccaaaaca 420
tccacaagan caangttcat cagccagaga ctttcccaga atgctgatag nacacgccat 480
accaacttgt ccaacancca ctacagcgat cttattggt 519

```

```

<210> 161
<211> 446
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> 5, 32, 36, 269, 354, 381
<223> n = A,T,C or G

```

```

<400> 161
cgagngggcc gcccgggcag gtccagtaag cntttnacga tgatgggaaa ggttatgcaa 60
ggtcccagcg gtacaacgag ctgtttctac atcatttgta ttctgcatgg tacgtacaat 120
agcagacacc atctgaggag aacgcatgat agcgtgtctg gaagcttcct ttttagaaag 180
ctgatggacc ataactgcag ccttattaac caccacctgg tctcgtcat ttagcagttt 240
tgtcagttca gggattgcac gtgtggcang ttctgcatca tcttgatagt taatcaagtt 300
tacaactggc atgtttcagc atctgcgatg ggctcagcaa acgctggaca ttantgggat 360
gagcagcatc aaactgtgta natgggatct gcatgccctc atctaattgc tcaggggaaca 420
tagcagctcg taccctctga gctcga 446

```

```

<210> 162
<211> 354
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> 6, 19, 36, 116, 152, 174, 186, 196, 223, 249

```

<223> n = A,T,C or G

<400> 162

```
agcgtngtcg cggcccgang tcctgggaag cctttnttgc tgagcctcac agcctctgtc 60
aggcggctgc ggatccagcg gtccaccagg ctctcatggc ctccgggctg ggaggngggg 120
gagggcacaa aacccttccc aaggccacga anggcaaact tggatggcatt ccanagcttg 180
ttgcanaagt ggcggnnaacc cagtatccgg ttcacatcca ggntgatgtc acgaccctgg 240
gacatgtang cacataatcc aaaccggaga gcacgggtgc cacattcacg aatccccgct 300
gggaagtcag ctttctgccc ttctttggcc ttctccacct cgctgggata cagg          354
```

<210> 163

<211> 258

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> 7, 24, 32, 153, 198, 205

<223> n = A,T,C or G

<400> 163

```
tttttcncca agtcctcttg ccgngggatc tngactgcaa ttttaagacac ttctaattag 60
ttatacccag gccctgcaaa attgctgggt ttatataata tattcttgct gcacgaagat 120
ttattattct gttgatgat tctattttta ttntatttat tctggccaaa aaagaacctt 180
ctccgctcgt caagagangc caatntgtct tgaaggacaa gagaaagatg ctaacacaca 240
ctttcttctt cttgagga          258
```

<210> 164

<211> 282

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> 97, 130, 163, 178, 203, 204

<223> n = A,T,C or G

<400> 164

```
ggaacatatt actttttaat tacttgggtc aatgaaacat ttaataaaaa catttgcttc 60
tctatataat acgtatgtat aaaataagcc ttttcanaaa ctctgggttct cataatcctc 120
tataaatcan atgatctgac ttctaagagg aacaaattac agnaaggggt atacattnat 180
gaatactggg agtactagag ganngacgct aaaccactct actaccactt gcggaactct 240
cacagggtaa atgacaaagc caatgactga ctctaaaaac aa          282
```

<210> 165

<211> 462

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> 10, 33, 36, 49, 198, 222, 243, 278, 357, 385, 399, 405, 437

<223> n = A,T,C or G

```

<400> 165
gcccgggcan gtcctgtaat cccagctact cangangctg agtcatgana atcgccctgaa 60
tccgggaggt agaggccgca gcgagcaaag attaagccac tgcactccag tctgggtgac 120
agagtgagaa tctgtctgtt gctcctcttg cattggtctg aaatgggttt gtagaacatg 180
ccacagaagg accagcanca gcaacaaatg gatttgtgga angcgtagct ccaaattggag 240
cangcacact tgatgaagca cgctgtgtct gtgcagangc aaccactggc actgttccaa 300
aaacattgct gctagcatta cttgtggaag tatacgcatc actggagggtg gctgcanaac 360
tgaaaacgct gtctagttct gccanagctg catacttgnc tgaanatgca cttgactgac 420
tggaactga accacanaac caacaggacc ttacctgtg ga 462

```

```

<210> 166
<211> 365
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> 14, 18
<223> n = A,T,C or G

```

```

<400> 166
cgtgggtcgc ggcncgangt ctgaaaccaa tccagaacta aacatcagca cacaaaaaat 60
accaggatag atggaatcaa aagactctga agccaaaagg aggctaggga gagcaactga 120
acttagcaag ctgaggactt cagtgtccat catccgatcc tgccctgtaa caacaggtct 180
atatgataga gatattccat ctgagctgga ggccattatc cttagcaaac taacacagaa 240
cagaaaacca aatacatgtt ctcatctaga agtaggagct aaatgatgag aactcaagga 300
cacaaagaaa ggaacaacag acactggggc ctacttgagg gtggagggtg ggaggaggga 360
gaaga 365

```

```

<210> 167
<211> 364
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> 19, 342, 361
<223> n = A,T,C or G

```

```

<400> 167
agcgtggtcg cggcgcgang tccagcccta gcttgccctg gactccgcct tcaactgggtg 60
ctctctctaa aagttgctga ctctttactg tatctcccaa ttcccactcc attgggtcca 120
taaggggagg ggtgtctcac tcaacatggt gttcctggta ccaagaactg gctgacgaag 180
ctgggtgccg tggctcatgc ctgtaatccc agcacttttg ggaggccaag aagggcggat 240
cacctgaggt ctggagttca agatcagcct gaccaacatg atgaaaccaa gtctccacta 300
aaaatataaa acaattagcc aggcatggtg gtgggtgcct gnaatcccag ctactgggga 360
ngct 364

```

```

<210> 168
<211> 447
<212> DNA
<213> Homo sapiens

```

```

<220>

```

<221> misc_feature
 <222> 407, 414, 437
 <223> n = A,T,C or G

<400> 168
 cccgggagcagg tcaaaaccca aaacctttca ttttagccca aaccagctca tgattaggta 60
 tacaaggata acagaaccag ttgtcaggac gagcatttga caagtaaaag caatttcttg 120
 aaagctgcag ttcattccagc tcatggcatg tgtctttata tagcatcctc gcaatgtcag 180
 cttgtctact gtctgtctca tagaaaatca cggatttgtg gagaagcaat tgggcatcag 240
 ctttgaactc ttcataactt cggattttcc cttcattcac tttctcttga atggtgggaa 300
 cgtccacaga cctcgggcgc gaccacgcta agcccgaatt ctgcagatat ccatcacact 360
 ggcgggcgtt cgagcatggc atctagaagg cccaattcgc ctatagnag tcnattacc 420
 aattcactgg cgtcgnttt acaacgc 447

<210> 169
 <211> 524
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 4, 6, 39, 40, 235, 248, 313, 340, 359, 382, 389, 420, 434, 442, 453, 496
 <223> n = A,T,C or G

<400> 169
 cgantngcgc gcccgggcag gtctgagcag cttttctggn tgctggacta ttgggattgg 60
 gttcatccaa cagagactgt atggatgta gaatggaaga cacatcatag gttggactcc 120
 aacggttctg aagtatgtcc agacatatac taccatctgc atagactaag aacaaagaag 180
 taggtacatt aaacgtaaca agaccactaa ggttttaaca ttatagacaa aacanaaata 240
 gtcaaganta ctttgctttt gaagtttaaa gattcctatg ttgcttccca gtttaactgcc 300
 taaaaagata agncataacc accactagtg aaataatcan gatgatcaga gaatgtcana 360
 tgtgatcagt ataaaactgg angatattna gtgtcatcct ttggaaaagg ctgccctatn 420
 atccaggaaa tcanaaacat tnttgaacag ggnccctagc tatccacaga catgtgggaa 480
 attcattccc caaatngtag gctggatccc ctatctgaaa taac 524

<210> 170
 <211> 332
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 5, 10, 63, 66, 90, 93, 96, 186, 207, 261, 290, 324, 326
 <223> n = A,T,C or G

<400> 170
 tcgancggcn cgcccgggca ggtgacaaac ctgttattga agatgttggt tctgatgagg 60
 aanaanatca gaagggatgg tgacaagaan aanaanaaga agattaagga aaagtacatc 120
 gatcaagaag agctcaacaa aacaaagccc atctggacca gaaatccga cgatattact 180
 aatgangagt acggagaatt ctataanagc ttgaccaatg actgggaaga tcacttggca 240
 gtgaagcatt tttcagttga nggacagttg gaattcagag cccttctatn tgtcccacga 300
 cgtgctcctt ttgatctggt tganancaga aa 332

<210> 171
 <211> 334
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 5, 9, 200, 228, 232
 <223> n = A,T,C or G

<400> 171
 cgagnggcnc gcccgggcag gtctgttgat agcgacttaa cagaaaagtc tagacaaaca 60
 taagcataaa aaattacagt ctttctaccc ttgggaatgg ggagaaaaag gaatctctac 120
 cccaagacca gaaataataa gtcctgtttc tggcctgaa catccagaat tatggaggct 180
 ttggcctgac accacattan aatttgggtc ggaaatcaaa ctttaganac angagatcgt 240
 aagccatttt atactatcga cctaaattcc agtctaacgg ttcctttaca aagttgcgga 300
 aagccctctt atatgctagc tgtaggaaat atag 334

<210> 172
 <211> 439
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 19, 375, 388, 390, 395, 409, 426, 434
 <223> n = A,T,C or G

<400> 172
 agcgtggctc cggcccgang tctgcctata aaactagact tctgacgctg ggctccagct 60
 tcattctcac aggtcatcat cctcatccgg gagagcagtt gtctgagcaa cctctaagtc 120
 gtgctcatalc tgtgctgccca aagctgggtc catgacaact tctggtgggg cgagagcagg 180
 catggcaaca aattccaagt taggtctcc aatgagcttc cttagcaagg agaggaaggg 240
 cttttcaaag ttgtagttac ttttggcaga aatgtcgtag tactgaagat tcttctttcg 300
 gtggaagaca atggatttcg ccttcacttt ctgccttaat atccactttg gtgccacaca 360
 acacaatggg gatgntttca cacacttngn accanatctc tatgccagnt aggccatttt 420
 ggaagnactt cganggtac 439

<210> 173
 <211> 599
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 5, 31
 <223> n = A,T,C or G

<400> 173
 cgaatnggccg cccggggcagg tctgttaaaa naggaaattc agacatcgta cgactcgtaa 60
 ttgaatgtgg agctgactgc aatattttgt caaagcacca gaatagtgcc ctgcactttg 120
 cgaagcagtc taacaatgtg cttgtgtaag acttgctgaa gaaccattta gagacacttt 180
 caagagtagc agaagagaca ataaaggatt actttgaagc tcgccttgct ctgctagaac 240
 cagtttttcc aatcgcatgt catcgactct gtgagggtcc agatttttca acagatttca 300

```

attaccaacc cccacagaac ataccagaag gctctggcat cctgctgttt atcttccatg 360
caaacttttt gggtaaagaa gttattgctc ggctctgtgg accgtgtagt gtacaagctg 420
tagttctgaa tgataaattt cagcttcctg tttttctggg tctcgctctg ttgtccaggc 480
tggagtgcag tggcgcggat tacagctcac tggagtcttg acttcccagg cacaagcaat 540
cctcccacct cagcctccta actacctggg actaaaaatg caccgccacc acattccgg 599

```

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<210> 174
<211> 458
<212> DNA
<213> Homo sapiens

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<220>
<221> misc_feature
<222> 30, 32, 35, 51, 61, 213, 261, 327, 347, 359, 377, 418
<223> n = A,T,C or G

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<400> 174
tcgatttggc cgcccgggca ggtccatgcn gnttntgccc attcccatgg ngcccgacaa 60
ncccatcccc gaggcgcaca tccccatgtt catgttcatg cccaccatgc cctgggtcat 120
ccctgcgctg tccccagag gggccattcc catggtgccc gtcattacac cgggcatgtt 180
cataggcatg ggtcccccca ggagaggggt agnttgaggc cggacaggaa gcatgtttga 240
tggagaactg aggttcacag nctccaaaac tttgagtcac cacattcata ggctgctgca 300
tattctgtct gctgaatcca ttgtatncag tgatggcctg ctggggnttt ggaaggctng 360
cataccaggt agtaagntcg tctaggctga tgtttacacc tggggtcaga ccaagtanga 420
gggcaagggt ttgctgactg attttctgga cccatata 458

```

```

<210> 175
<211> 1206
<212> DNA
<213> Homo sapiens

```

```

<400> 175
ggcagcagga agttttgtgt actgaaaaag aaactgtcag aagcaaaaga aataaaatca 60
cagttagaga accaaaaagt taaatgggaa caagagctct gcagtgtgag gtttctcaca 120
ctcatgaaaa tgaaaattat ctcttacatg aaaattgcat gttgaaaaag gaaattgcca 180
tgctaaaact ggaaatagcc aactgaaac accaatacca ggaaaaggaa aataaatact 240
ttgaggacat taagatttta aaagaaaaga atgctgaact tcagatgacc ctaaaactga 300
aagaggaatc attaactaaa agggcatctc aatatagtgg gcagcttaaa gttctgatag 360
ctgagaacac aatgctcact tctaaattga aggaaaaaca agacaaagaa atactagagg 420
cagaaattga atcacaccat cctagactgg cttctgctgt acaagaccat gatcaaattg 480
tgacatcaag aaaaagtcaa gaacctgctt tccacattgc aggagatgct tgtttgcaaa 540
gaaaaatgaa tgttgatgtg agtagtacga tatataacaa tgaggtgctc catcaaccac 600
tttctgaagc tcaaaggaaa tccaaaagcc taaaaattaa tctcaattat gcoggagatg 660
ctctaagaga aaatacattg gtttcagaac atgcacaaag agaccaacgt gaaacacagt 720
gtcaaatgaa ggaagctgaa cacatgtatc aaaacgaaca agataatgtg aacaaacaca 780
ctgaacagca ggagtctcta gatcagaaat tatttcaact acaaagcaaa aatatgtggc 840
ttcaacagca attagttcat gcacataaga aagctgacaa caaaagcaag ataacaattg 900
atattcattt tcttgagagg aaaatgcaac atcatctcct aaaagagaaa aatgaggaga 960
tatttaatta caataacat ttaaaaaacc gtatatatca atatgaaaa gagaaagcag 1020
aacagaagt tatataatag tataacactg ccaaggagcg gattatctca tcttcacct 1080
gtaattccag tgtttgtcac gtgggtgttg aataaatgaa taaagaatga gaaaaccaga 1140
agctctgata cataatcata atgataatta tttcaatgca caactacggg tgggtgctgct 1200
cgtgcc 1206

```

<210> 176
 <211> 317
 <212> PRT
 <213> Homo sapiens

<400> 176

Met	Gly	Thr	Arg	Ala	Leu	Gln	Cys	Glu	Val	Ser	His	Thr	His	Glu	Asn
1				5					10					15	
Glu	Asn	Tyr	Leu	Leu	His	Glu	Asn	Cys	Met	Leu	Lys	Lys	Glu	Ile	Ala
			20					25					30		
Met	Leu	Lys	Leu	Glu	Ile	Ala	Thr	Leu	Lys	His	Gln	Tyr	Gln	Glu	Lys
		35					40					45			
Glu	Asn	Lys	Tyr	Phe	Glu	Asp	Ile	Lys	Ile	Leu	Lys	Glu	Lys	Asn	Ala
	50					55					60				
Glu	Leu	Gln	Met	Thr	Leu	Lys	Leu	Lys	Glu	Glu	Ser	Leu	Thr	Lys	Arg
65					70					75					80
Ala	Ser	Gln	Tyr	Ser	Gly	Gln	Leu	Lys	Val	Leu	Ile	Ala	Glu	Asn	Thr
				85					90					95	
Met	Leu	Thr	Ser	Lys	Leu	Lys	Glu	Lys	Gln	Asp	Lys	Glu	Ile	Leu	Glu
			100					105					110		
Ala	Glu	Ile	Glu	Ser	His	His	Pro	Arg	Leu	Ala	Ser	Ala	Val	Gln	Asp
		115					120					125			
His	Asp	Gln	Ile	Val	Thr	Ser	Arg	Lys	Ser	Gln	Glu	Pro	Ala	Phe	His
	130					135					140				
Ile	Ala	Gly	Asp	Ala	Cys	Leu	Gln	Arg	Lys	Met	Asn	Val	Asp	Val	Ser
145					150					155					160
Ser	Thr	Ile	Tyr	Asn	Asn	Glu	Val	Leu	His	Gln	Pro	Leu	Ser	Glu	Ala
				165					170					175	
Gln	Arg	Lys	Ser	Lys	Ser	Leu	Lys	Ile	Asn	Leu	Asn	Tyr	Ala	Gly	Asp
			180					185					190		
Ala	Leu	Arg	Glu	Asn	Thr	Leu	Val	Ser	Glu	His	Ala	Gln	Arg	Asp	Gln
		195					200					205			
Arg	Glu	Thr	Gln	Cys	Gln	Met	Lys	Glu	Ala	Glu	His	Met	Tyr	Gln	Asn
	210					215					220				
Glu	Gln	Asp	Asn	Val	Asn	Lys	His	Thr	Glu	Gln	Gln	Glu	Ser	Leu	Asp
225					230					235					240
Gln	Lys	Leu	Phe	Gln	Leu	Gln	Ser	Lys	Asn	Met	Trp	Leu	Gln	Gln	Gln
				245					250					255	
Leu	Val	His	Ala	His	Lys	Lys	Ala	Asp	Asn	Lys	Ser	Lys	Ile	Thr	Ile
			260					265					270		
Asp	Ile	His	Phe	Leu	Glu	Arg	Lys	Met	Gln	His	His	Leu	Leu	Lys	Glu
	275						280					285			
Lys	Asn	Glu	Glu	Ile	Phe	Asn	Tyr	Asn	Asn	His	Leu	Lys	Asn	Arg	Ile
	290					295					300				
Tyr	Gln	Tyr	Glu	Lys	Glu	Lys	Ala	Glu	Thr	Glu	Val	Ile			
305					310					315					

<210> 177
 <211> 20
 <212> DNA
 <213> Artificial Sequence

<220>

<223> Made in the lab

<400> 177

ccaatcatct ccacaggagc

20

<210> 178

<211> 1665

<212> DNA

<213> Homo sapiens

<400> 178

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gcaaacctttc aagcagagcc tcccgagaag ccactctgcct tcgagcctgc cattgaaatg 60
caaaagtctg ttccaaataa agccttggaag ttgaagaatg aacaaacatt gagagcagat 120
cagatgttcc cttcagaatc aaaacaaaag aagggttgaag aaaattcttg ggattctgag 180
agtctccgtg agactgtttc acagaaggat gtgtgtgtac ccaaggctac acatcaaaaa 240
gaaatggata aaataagtgg aaaattagaa gattcaacta gcctatcaaa aatcttggat 300
acagttcatt cttgtgaaag agcaagggaa cttcaaaaag atcactgtga acaacgtaca 360
ggaaaaatgg aacaaatgaa aaagaagttt tgtgtactga aaaagaaact gtcagaagca 420
aaagaaataa aatcacagtt agagaaccaa aaagttaaat gggaacaaga gctctgcagt 480
gtgaggtttc tcacactcat gaaaatgaaa attatctctt acatgaaaat tgcattgtga 540
aaaaggaaat tgccatgcta aaactggaaa tagccacact gaaacaccaa taccaggaaa 600
agggaaataa atactttgag gacattaaga ttttaaaaga aaagaatgct gaacttcaga 660
tgacctaaa actgaaagag gaatcattaa ctaaaagggc atctcaatat agtgggcagc 720
ttaaagttct gatagctgag aacacaatgc tcacttctaa attgaaggaa aaacaagaca 780
aagaaatact agaggcgaga attgaatcac accatcctag actggcttct gctgtacaag 840
accatgatca aattgtgaca tcaagaaaaa gtcaagaacc tgctttccac attgcaggag 900
atgcttggtt gcaaagaaaa atgaatgttg atgtgagtag tacgatatat aacaatgagg 960
tgctccatca accactttct gaagctcaaa ggaaatccaa aagcctaaaa attaatctca 1020
attatgccgg agatgctcta agagaaaaata cattggtttc agaacatgca caaagagacc 1080
aacgtgaaac acagtgtcaa atgaagggaag ctgaacacat gtatcaaaac gaacaagata 1140
atgtgaacaa acacactgaa cagcaggagt ctctagatca gaaattattt caactacaaa 1200
gcaaaaaatat gtggcttcaa cagcaattag ttcatgcaca taagaaagct gacaacaaaa 1260
gcaagataac aattgatatt catTTTTcttg agaggaaaat gcaacatcat ctctctaaaag 1320
agaaaaatga ggagatatTT aattacaata accattttaa aaaccgtata tatcaatatg 1380
aaaaagagaa agcagaaaca gaaaactcat gagagacaag cagtaagaaa cttcttttgg 1440
agaacaaca gaccagatct ttactcaca ctcatgctag gaggccagtc ctagcattac 1500
cttatgttga aaatcttacc aatagtctgt gtcaacagaa tacttatttt agaagaaaaa 1560
ttcatgattt cttcctgaag cctgggagac agagcgagac tctgtctcaa aaaaaaaaaa 1620
aaaaaaaaagaa agaaagaaat gcctgtgctt acttcgcttc ccagg 1665

```

<210> 179

<211> 179

<212> PRT

<213> Homo sapiens

<400> 179

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Ala Asn Phe Gln Ala Glu Pro Pro Glu Lys Pro Ser Ala Phe Glu Pro
 1             5             10             15
Ala Ile Glu Met Gln Lys Ser Val Pro Asn Lys Ala Leu Glu Leu Lys
             20             25             30
Asn Glu Gln Thr Leu Arg Ala Asp Gln Met Phe Pro Ser Glu Ser Lys
             35             40             45
Gln Lys Lys Val Glu Glu Asn Ser Trp Asp Ser Glu Ser Leu Arg Glu
 50             55             60

```

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<210> 180
<211> 1681
<212> DNA
<213> Homo sapiens
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<400> 180						
gatacagtc	ttcttgtgaa	agagcaagg	aacttcaaaa	agatcactgt	gaacaacgta	60
caggaaaaat	ggaacaaatg	aaaaagaagt	tttgtgtact	gaaaaagaaa	ctgtcagaag	120
caaaagaaat	aaaatcacag	ttagagaacc	aaaaagttaa	atgggaacaa	gagctctgca	180
gtgtgagatt	gactttaaac	caagaagaag	agaagagaag	aatgccgat	atattaaatg	240
aaaaaattag	ggaagaatta	ggaagaatcg	aagagcagca	taggaaagag	ttagaagtga	300
aacaacaact	tgaacaggct	ctcagaatac	aagatataga	attgaagagt	gtagaaagta	360
atttgaatca	ggttttctcac	actcatgaaa	atgaaaatta	tctcttacat	gaaaattgca	420
tgttgaaaaa	ggaaattgcc	atgctaaaac	tggaaatagc	cacactgaaa	caccaatacc	480
aggaaaagga	aaataaatac	tttgaggaca	ttaagatttt	aaaagaaaag	aatgctgaac	540
ttcagatgac	cctaaaactg	aaagaggaat	cattaactaa	aagggcatct	caatatagtg	600
ggcagcttaa	agttctgata	gctgagaaca	caatgctcac	ttctaaattg	aaggaaaaac	660
aagacaaaaga	aatactagag	gcagaaattg	aatcacacca	tcttagactg	gcttctgctg	720
tacaagacca	tgatcaaatt	gtgacatcaa	gaaaaagtca	agaacctgct	ttccacattg	780
caggagatgc	ttgtttgcaa	agaaaaatga	atgttgatgt	gagtagtacg	atatataaca	840
atgaggtgct	ccatcaacca	ctttctgaag	ctcaaaggaa	atccaaaagc	ctaaaaatta	900
atctcaatta	tgccggagat	gctctaagag	aaaatacatt	ggtttcagaa	catgcacaaa	960
gagaccaacg	tgaaacacag	tgtcaaatga	aggaagctga	acacatgtat	caaacgaac	1020
aagataatgt	gaacaaacac	actgaacagc	aggagtctct	agatcagaaa	ttattttcaac	1080
tacaaagcaa	aaatatgtgg	cttcaacagc	aattagttca	tgcacataag	aaagctgaca	1140
acaaaagcaa	gataacaatt	gatattcatt	ttcttgagag	gaaaatgcaa	catcatctcc	1200
taaaagagaa	aatgaggag	atattttaatt	acaataacca	tttaaaaaac	cgtatatatc	1260
aatatgaaaa	agagaaagca	gaaacagaaa	actcatgaga	gacaagcagt	aagaaacttc	1320
ttttggagaa	acaacagacc	agatctttac	tcacaactca	tgctaggagg	ccagtcctag	1380
cattacccta	tgttgaaaaa	tcttaccaat	agtctgtgtc	aacagaatac	ttatttttaga	1440
agaaaaattc	atgatttctt	cctgaagcct	acagacataa	aataacagtg	tgaagaatta	1500
cttgttcacg	aattgctataa	aagctgccca	ggattttccat	ctaccctgga	tgatgccgga	1560
gacatcattc	aatccaacca	gaatctcgct	ctgtcactca	ggctggagtg	cagtgggcgc	1620
aatctcggtc	cactgcaact	ctgcctccca	ggttcacgcc	attctctggc	acagcctccc	1680
g						1681

<400>	181														
Asp 1	Thr	Val	His	Ser 5	Cys	Glu	Arg	Ala	Arg 10	Glu	Leu	Gln	Lys	Asp 15	His
Cys	Glu	Gln	Arg 20	Thr	Gly	Lys	Met	Glu 25	Gln	Met	Lys	Lys	Lys 30	Phe	Cys
Val	Leu	Lys 35	Lys	Lys	Leu	Ser	Glu 40	Ala	Lys	Glu	Ile	Lys 45	Ser	Gln	Leu
Glu	Asn 50	Gln	Lys	Val	Lys	Trp 55	Glu	Gln	Glu	Leu	Cys 60	Ser	Val	Arg	Leu
Thr 65	Leu	Asn	Gln	Glu 70	Glu	Glu	Lys	Arg	Arg 75	Asn	Ala	Asp	Ile	Leu	Asn 80
Glu	Lys	Ile	Arg 85	Glu	Leu	Gly	Arg	Ile 90	Glu	Glu	Gln	His	Arg 95	Lys	
Glu	Leu	Glu 100	Val	Lys	Gln	Gln	Leu 105	Gln	Ala	Leu	Arg	Ile 110	Gln	Asp	
Ile	Glu	Leu 115	Lys	Ser	Val	Glu	Ser 120	Asn	Leu	Asn	Gln	Val 125	Ser	His	Thr
His	Glu 130	Asn	Glu	Asn	Tyr	Leu 135	Leu	His	Glu	Asn	Cys 140	Met	Leu	Lys	Lys
Glu 145	Ile	Ala	Met	Leu 150	Lys	Leu	Glu	Ile	Ala	Thr 155	Leu	Lys	His	Gln	Tyr 160
Gln	Glu	Lys	Glu 165	Asn	Lys	Tyr	Phe	Glu 170	Asp	Ile	Lys	Ile 175	Leu	Lys	Glu
Lys	Asn	Ala 180	Glu	Leu	Gln	Met	Thr 185	Leu	Lys	Leu	Lys	Glu 190	Glu	Ser	Leu
Thr	Lys	Arg 195	Ala	Ser	Gln	Tyr	Ser 200	Gly	Gln	Leu	Lys	Val 205	Leu	Ile	Ala
Glu	Asn 210	Thr	Met	Leu	Thr	Ser 215	Lys	Leu	Lys	Glu	Lys 220	Gln	Asp	Lys	Glu
Ile 225	Leu	Glu	Ala	Glu 230	Ile	Ser	His	His 235	Pro	Arg	Leu	Ala	Ser	Ala	
Val	Gln	Asp	His 245	Asp	Gln	Ile	Val	Thr 250	Ser	Arg	Lys	Ser	Gln	Glu	Pro
Ala	Phe	His 260	Ile	Ala	Gly	Asp	Ala 265	Cys	Leu	Gln	Arg	Lys	Met	Asn	Val
Asp	Val	Ser 275	Ser	Thr	Ile	Tyr	Asn 280	Asn	Glu	Val	Leu	His	Gln	Pro	Leu
Ser	Glu 290	Ala	Gln	Arg	Lys	Ser 295	Lys	Ser	Leu	Lys	Ile	Asn	Leu	Asn	Tyr
Ala 305	Gly	Asp	Ala	Leu 310	Arg	Glu	Asn	Thr	Leu	Val 315	Ser	Glu	His	Ala	Gln
Arg	Asp	Gln	Arg 325	Glu	Thr	Gln	Cys	Gln 330	Met	Lys	Glu	Ala	Glu	His	Met
Tyr	Gln	Asn	Glu 340	Gln	Asp	Asn	Val	Asn 345	Lys	His	Thr	Glu	Gln	Gln	Glu
Ser	Leu	Asp 355	Gln	Lys	Leu	Phe	Gln 360	Leu	Gln	Ser	Lys	Asn	Met	Trp	Leu
Gln	Gln 370	Gln	Leu	Val	His	Ala 375	His	Lys	Lys	Ala 380	Asp	Asn	Lys	Ser	Lys

Ile Thr Ile Asp Ile His Phe Leu Glu Arg Lys Met Gln His His Leu
 385 390 395 400
 Leu Lys Glu Lys Asn Glu Glu Ile Phe Asn Tyr Asn Asn His Leu Lys
 405 410 415
 Asn Arg Ile Tyr Gln Tyr Glu Lys Glu Lys Ala Glu Thr Glu Asn Ser
 420 425 430

<210> 182
 <211> 511
 <212> DNA
 <213> Homo sapiens

<400> 182
 gaagtttcat gaggttttagc ttttctgggc tggggagtg agagaaagaa gttgcagggc 60
 ttacaggaaa tcccagagcc tgaggttttc tcccagattt gagaactcta gattctgcat 120
 cattatcttt gagtctatat tctcttgggc tgtaagaaga tgaggaatgt aatagggtctg 180
 ccccaagcct ttcattgcctt ctgtaccaag cttgttttct tgtgcatcct tcccaggctc 240
 tggctgcccc ttattggaga atgtgatttc caagacaatc aatccacaag tgtctaagac 300
 tgaatacaaa gaacttcttc aagagttcat agacgacaat gccactacaa atgccataga 360
 tgaattgaag gaatgttttc ttaaccaaac ggatgaaact ctgagcaatg ttgagggtgtt 420
 tatgcaatta atatatgaca gcagtctttg tgatttattt taactttctg caagaccttt 480
 ggctcacaga actgcagggt atggtgagaa a 511

<210> 183
 <211> 260
 <212> DNA
 <213> Homo sapiens

<400> 183
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 cttctctgcc atcttctcat actggtcacg catctcggtc agaatgcggc tcagggtccac 120
 gccagggtgca gcgtccatct ccacattgac atctccaccc acctggcctc tcagggcatt 180
 catctcctcc tcgtggttct tcttcaggta ggccagctcc tccttcaggc tctcaatctg 240
 catctccagg tcagctctgg 260

<210> 184
 <211> 461
 <212> DNA
 <213> Homo sapiens

<400> 184
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 agggcctttt ctagctgtat gactgttact tgaccttctt tgaaaagcat tcccaaaaatg 120
 ctctatttta gatagattaa catlaaccaa cataattttt tttagatcga gtcagcataa 180
 atttctaagt cagcctctag tcgtggttca tctctttcac ctgcatttta tttggtgttt 240
 gtctgaagaa aggaaagagg aaagcaaata cgaattgtac tatttgtacc aaatctttgg 300
 gattcattgg caaataattt cagtgtggtg tattattaaa tagaaaaaaa aaattttgtt 360
 tcctaggttg aaggtctaatt tgataccgtt tgacttatga tgaccattta tgcactttca 420
 aatgaatttg ctttcaaaaat aaatgaagag cagacctcgg c 461

<210> 185
 <211> 531
 <212> DNA

<400> 185

<210> 186

<212> DNA

<400> 186

<210> 187

<211> 371

<212> DNA

<213> Homo sapiens

<400> 187

<210> 188

<211> 226

<212> DNA

<213> Homo sapiens

<400> 188

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ggtatataaa ttgagatgcc cccccaggcc agcaaatggt ccttttttgtt caaagtctat 60
ttttattcct tgataTTTTT cTTTTTTTTT tttttgtgga tggggacttg tgaatttttc 120
taaagggtgct atttaacatg ggaggagagc gtgtgcggct ccagcccagc ccgctgctca 180
ctttccaccc tctctccacc tgcctctggc ttctcaggac ctgccc      226
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<210> 189

<211> 391
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 43, 112, 131, 156, 195, 208, 221, 317, 333, 367
 <223> n = A,T,C or G

<400> 189
 tgggtgaagt ttattctgtt ttcacatcta ggttggtggg ganagtgata gacaaagttc 60
 tggattctgg gcatcgtcgg cgcattgctt taatcctact tgggagggtg anacaggaga 120
 cctcggccgc naccacgcta agggcgaatt ctgcanatat ccatcacact ggcgcccgct 180
 cgagcatgca tctanagggc ccaattcncc ctatagttag ncgtattaca attcaactggc 240
 cgtogtttta caacgctcgtg actgggaaaa ccctggcggt acccaactta atcgcccttg 300
 agcacatccc cctttcncca gctggcttaa tancgaagag gcccgccaccg atcgcccttc 360
 ccaacanttg cgcagcctga atggcgaatg g 391

<210> 190
 <211> 501
 <212> DNA
 <213> Homo sapiens

<400> 190
 catcttggcc tttttgagct gtttccgctt cttctcatcc cggtcactgt caccctcatt 60
 actggaggag ctggcagagg cggttgctgt aaactcctct gccacatctt cctcctcttc 120
 acctgggttg aatgactcat cgggtttctt tcttgagtca tcgtgctgt cattggcatt 180
 ctctcccgg atcttgctt cctccttcat cctctccaag taggcatcat gctggtcctc 240
 atcagagtca gcatattcat cgtagcttgg gttcatgccc tctttcaatc ctcggttttt 300
 gatgttgagc tttttcgcgt tgacaaaatc aaacagtttc ccgtactcct ccctctcaat 360
 gctgctgaag gtatactgag tgccctgctt ggtctcaatt tcaaagtcaa aggaacgagt 420
 agtagtgta ccacgagcaa agttgacaaa ggagatctca tcgaagcgga tgtgcacagg 480
 tggcttgtgg acgtagatga a 501

<210> 191
 <211> 241
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 49
 <223> n = A,T,C or G

<400> 191
 ggaaaaactg tgaaaaatat atctgaattt attaatgata gtataaaana gggttgtggc 60
 aacagaaagt aaaaactaac atggattgct ataaatatgc tgaagcctag ttgttcaaat 120
 gatacaattc tctcatgcta ctctaaagt tataaagaaa aaggatttac actttacaca 180
 ctgtacacaa aaggaatacc ttctgagagc cagggagtgg ggaaagggga aggagacttg 240
 a 241

<210> 192
 <211> 271
 <212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> 6, 17, 23, 26, 70, 227, 245

<223> n = A,T,C or G

<400> 192

```

tggtcntgga ttcacanata aantanatcg actaaaactg gcagaaattg tgaagcaggt 60
gatagaagan caaaccacgt cccacgaatc ccaataatga cagcttcaga ctttgctttt 120
ttaacaattt gaaaaattat tctttaatgt ataaagtaat tttatgtaaa ttaataaatc 180
ataatttcat ttccacattg attaaagctg ctgtatagat ttagggngca ggacttaata 240
atagnngaaa tgaaattatg atttattaat c 271

```

<210> 193

<211> 351

<212> DNA

<213> Homo sapiens

<400> 193

```

agtgcaggcg ctgatcccta aaatggcgaa catgtgtttt catcatttca gccaaagtcc 60
taacttcctg tgcctttcct atcacctcga gaagtaatta tcagttgggt tggatttttg 120
gaccaccgtt cagtcatttt gggttgccgt gctcccaaaa cattttaaat gaaagtattg 180
gcattcaaaa agacagcaga caaaatgaaa gaaaatgaga gcagaaagta agcatttcca 240
gcctatctaa tttctttagt tttctatttg cctccagtgc agtccatttc ctaatgtata 300
ccagcctact gtactattta aaatgctcaa tttcagcacc gatggacctg c 351

```

<210> 194

<211> 311

<212> DNA

<213> Homo sapiens

<400> 194

```

ctgagacaca gaggcccact gcgaggggga cagtggcggt gggactgacc tgctgacagt 60
caccctccct ctgctgggat gaggtccagg agccaactaa aacaatggca gaggagacat 120
ctctggtggt cccaccaccc tagatgaaaa tccacagcac agacctctac cgtgtttctc 180
ttccatccct aaaccacttc cttaaaatgt ttggatttgc aaagccaatt tggggcctgt 240
ggagcctggg gttggatagg gccatggctg gtccccccacc atacctcccc tccacatcac 300
tgacacagac c 311

```

<210> 195

<211> 381

<212> DNA

<213> Homo sapiens

<400> 195

```

tgtcagagtg gcactggtag aagttccagg aaccctgaac tgtaagggtt cttcatcagt 60
gccaacagga tgacatgaaa tgatgtactc agaagtgtcc tggaatgggg cccatgagat 120
ggttgtctga gagagagctt cttgtcctgt ctttttcctt ccaatcaggg gctcgtcttt 180
ctgattattc ttcaggggcaa tgacataaat tgtatatctg gttcccgggt ccaggccagt 240
aatagtagcc tctgtgacac cagggcgggg ccgagggacc acttctcttg gaggagaccc 300
aggcttctca tacttgatga tgtagccggt aatcctggca cgtggcggtt gccatgatac 360
cagcagggaa ttgggtgtgg t 381

```

<210> 196
 <211> 401
 <212> DNA
 <213> Homo sapiens

<400> 196
 cacaaacaag aggagcacca gacctcctct tggcttcgag atggcttcgc cacaccaaga 60
 gcccaaacct ggagacctga ttgagatttt cgccttgcc tatgagcact gggccctgta 120
 tataggagat ggctacgtga tccatctggc tcctccaagt gactaccccg gggctggctc 180
 ctccagtgtc ttctcagtcc tgagcaacag tgcagaggtg aaacgggagc gcttgaaga 240
 tgtggtggga ggctgttgct atcgggtcaa caacagcttg gacctgagt accaaccacg 300
 gccctgggag gtgatcacca gttctgcgaa ggagatggtt ggtcagaaga tgaagtacag 360
 tattgtgagc aggaactgtg agcactttgt caccagacc t 401

<210> 197
 <211> 471
 <212> DNA
 <213> Homo sapiens

<400> 197
 ctgtaatgat gtgagcaggg agccttcctc cctggggccac ctgcagagag ctttcccacc 60
 aactttgtac cttgattgcc ttacaaagtt atttgtttac aaacagcgac catataaaag 120
 cctctgccc caaagcttgt gggcacatgg gcacatacag actcacatac agacacacac 180
 atatatgtac agacatgtac tctcacacac acaggcacca gcatacacac gtttttctag 240
 gtacagctcc caggaacagc taggtgggaa agtcccatca ctgagggagc ctaaccatgt 300
 ccctgaacaa aaattgggca ctcatctatt ctttttctct tgtgtcccta ctattgaaa 360
 ccaaactctg gaaaggaccc aatgtaccag tatttatacc tctagtgaag cacagagaga 420
 ggaagagagc tgcttaaaact cacacaacaa tgaactgcag acacagacct g 471

<210> 198
 <211> 201
 <212> DNA
 <213> Homo sapiens

<400> 198
 ggtccattga ggctctgtcg gccatgccc cagttcgaag ctttgccaac gaggagggcg 60
 aagcccagaa gtttagggaa aagctgcaag aaataaagac actcaaccag aaggaggctg 120
 tggcctatgc agtcaactcc tggaccacta gtatttcagg tatgctgctg aaagtgggaa 180
 tcctctacat tgggtgggcag a 201

<210> 199
 <211> 551
 <212> DNA
 <213> Homo sapiens

<400> 199
 tctggcacag atcttcaccc acacggcggt ccacgtgctg atcatcttcc gggctctcacc 60
 gggcctggaa cacaccatct tccccatgag cccggtgccc agtctggtga cttccatctt 120
 ggcccctggc cttatgtccc agttatgacc cctgacttca actctggctc ttaccctgta 180
 actccagtc cttctctgaca tttttaacac ccggccttgt gaccgtggac atagctcctg 240
 accctgattc ccatcttgag ccagtggtta gtccatgaga tcatgacctg actcctggtc 300
 tccaaccttg tgatcctaatt tctgggacct caatcctagc ctctgaactt gggaccctgg 360
 agctcctgac cttagtcttg accgctaccc ttgattctga ctttgatcc tgtaacttag 420
 ggggtggcccc tgaccttatt actgtcattt agctccttga ccttgccact tcaatcctgg 480

ctttatgacc tctactctc aattttaact ttaaccaa at gaccaaattt gtgacactaa 540
atgaccacaa t 551

<210> 200
<211> 211
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> 8, 36, 40, 78, 165, 170, 171, 173, 203, 207, 208
<223> n = A,T,C or G

<400> 200
cagctcancg ggcgacatgc ccctacaagt tggcanaagn ggctgccact gctggggttg 60
tgtaagagag gctgctgnca ccattacctg cagaaacctt ctcatagggg ctacgatcgg 120
tactgctagg gggcacatag cgcccatggg tgtggttagt ggggnactcn ntnataggat 180
ggtagggtatc ccgggctgga aanatgnnca g 211

<210> 201
<211> 111
<212> DNA
<213> Homo sapiens

<400> 201
ccagtgaag gaaacaaaac tggcagtttg tccatttgaa tatcagacct agtttcttct 60
taatttccac actatttctc ccatattcct taaacttctt ggcattccacc t 111

<210> 202
<211> 331
<212> DNA
<213> Homo sapiens

<400> 202
tgaaaataca gaataccagg tggccccaaa tgtttgaagt tctttgaaca gaaagagaga 60
ggagagagag agagaggaaa attccctaac ccttggttta aagacaatat tcatttattg 120
ctcaaatgat gcttttaagg gaggacagt gaataaaaata aacttttttt ttctccctac 180
aatacataga agggttatca aaccactcaa gtttcaaaat ctttccaggg tccaatatca 240
ctttttttct ttcggttcaa tgaaaagcta aatgtaataa tactaattat agataaaaatt 300
ttattttact ttttaaaaat ttgtccagac c 331

<210> 203
<211> 491
<212> DNA
<213> Homo sapiens

<400> 203
agtcacccag tctacttagt acctgggttg tgccctctgac cttttcagct tgataccctg 60
ggcttttagtg taaccaataa atctgtagtg accttacctg tattccctgt gctatcctgt 120
gggaaggtag gaatgggcta agtatgatga atgtataggt tagggatctt ttggttttaa 180
atcacagaaa acctaatcca aactggctta aaataaaaag gatttatttg ttcagttaac 240
tagaaagtcc ataggtagtg ctggctccag gtgaagactt gaccagtag ttcagtatgt 300
ctctaaatac cggactgact tttttctcac tgttgcactt tctgtaggac catttaagtc 360
tgggccactt aatggctgcc agcattccta agattacact tttcccatcatt tatgtccaat 420

cagaaaaaga aggcattctt gtaccagaaa tctcagcaaa agccctaata ttcacactga 480
ttaggacctg c 491

<210> 204
<211> 361
<212> DNA
<213> Homo sapiens

<400> 204
tcccttctct ccccatgtga taaatgggtc cagggctgat caaagaactc tgactgcaga 60
actgccgtct tcagtggaca gggcatctgt tatcctgaga cctgtggcag acacgtcttg 120
ttttcatttg atttttgtta agagtgcagt attgcagagt ctagaggaat ttttgtttcc 180
ttgattaaca tgattttcct ggttggttaca tccagggcat ggcagtggcc tcagccttaa 240
acttttgttc ctactccac cctcagcgaa ctgggcagca cggggagggg ttggctaccc 300
ctgcccattc ctgagccagg taccaccatt gtaaggaaac actttcagaa attcagacct 360
c 361

<210> 205
<211> 471
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> 2, 3
<223> n = A,T,C or G

<400> 205
cnngtacagt tcttcctgga tggccgacac agatcctggg gaaaggcaat cctggcactg 60
ctctgaaacc agagctcctc ctccctcccc gggcaggggt gagctgagaa gggctgctct 120
agcgttggga ctccacctcc atacacctga tattttgata gggcaggtcc ctgctatggg 180
ccactgttct gggcagtata gtatgcttga cagcatcctt ggcattctat caccagatcc 240
cagagcaccg gctactagct gtgacaacat cctccaaaca ttgcaaaatt tcccctggga 300
ggcaagattg cctcagatgg gagaatcacg ctctagggaa atctgctggt atgagaacct 360
caactcccca ctccactgag cctccagatg gcgagcaggc tgcagctcca gcacagacac 420
gaagctccct ccagccactg acggtccatg gctgggggta cccaggacct c 471

<210> 206
<211> 261
<212> DNA
<213> Homo sapiens

<400> 206
tagagtattt agagtcctga gataacaagg aatccaggca tccttttagac agtcttctgt 60
tgtcctttct tcccaatcag agatttgttg atgtgtggaa tgacaccacc accagcaatt 120
gtagccttga tgagagaatc caattcttca tctccacgaa tagcaagttg caagtgcga 180
ggggttaatac gctttacctt taagtctttt gatgcatttc ctgccagttc aagtacctct 240
gcggtgaggt actccaggat g 261

<210> 207
<211> 361
<212> DNA
<213> Homo sapiens

```
<210> 208
<211> 381
<212> DNA
<213> Homo sapiens
```

```

<400> 208
agaggagatn tttgccatgc ctgaatnctt tcctatncca ccctancact taacatatta 60
cttagtctgc tttgntaaaa gcaagtatta ccttnaactt gnetcttact ctttgccctt 120
tagctaacta ataaagnttg aintagggcat tattatataa ttctgagtca ttcatgggat 180
ctctcatgtt tgatgtattt tncaaaactaa gatctatgat agtttttttt ccanagttcc 240
attaaatcat ttatttcctt tactttctca cctctgtnga aacatttaga aactggattt 300
gggaacccan ttttggaaaa ccagattcat agtcatgaaa atggaaactt ncatattctg 360
tttttgaaaa gatgtggacc t
381

```

```
<220>  
<221> misc_feature  
<222> 83  
<223> n = A,T,C or G
```

```
<210> 210
<211> 371
<212> DNA
<213> Homo sapiens
```

```
<400> 210
tccatcctgg ttttgcagag atcaggttgt tgacagttcc tggttgaccc acagctaccc 60
atgtcagtta tctccactaa catatccaag aatctttgta ggacaatttc tccacctgca 120
aggtttttta ggtagaactc ttcttttaag gcaattagcc cattgccaaa aggttttact 180
```

```

gtcttaaagc tgtctttctg agatctaatt ccaaggactt ctccacagct aagtgagatg 240
cctcacacca ttaggtgatg ctttggacag aacagagtat tttcatcttg tgtttaaagc 300
aattccttgg cttcggctcc tcaccacttt ctatgccagt ctcccattta tgtccctagt 360
aatgcctatg c                                     371

```

```

<210> 211
<211> 471
<212> DNA
<213> Homo sapiens

```

```

<400> 211
tttatTTTaa aagaaaaaaa ttaaaataga gccaaacaaat gcaattaaga aaaaaaaagt 60
attgagacac aaggggacct acatgttctg gtctaagaag catgcaagta ttacaaagca 120
ttccagatac agtatgacag aggaacagtg aacaagcatt ggaacgatgc tctttctttc 180
agaaacggga agtctaacag ttatgttttc acaatggtag tgattaaacc atctttatTT 240
ttaaggaatt ttataggaag aatttttagca ccatcattaa aggaaaaata ataatacctt 300
tttagccctg cctatctcca gtcttggaat aataacagaa gcatagcacc tttcagtatc 360
taaaatataa acaagaatag taagtccatc ccagcttcta gagatgaggt agctcatgct 420
aagaaatggt ggggtcatttt tcctatgaaa gttcaaaggc caaatggtca c         471

```

```

<210> 212
<211> 401
<212> DNA
<213> Homo sapiens

```

```

<400> 212
tggcctgtct ccttcacata gtccatatca ccacaaatca cacaacaaaa gggagaggat 60
atattttggg ttcaaaaaaa gtaaaaagat aatgtagctg catttctttg gttattttgg 120
gccccaaata tttcctcatc tttttgttgt tgtcatggat ggtggtgaca tggacttggt 180
tatagaggac aggtcagctc tctggctcgg tgatctacat tctgaagtTg tctgaaaatg 240
tcttcatgat taaattcagc ctaaacgttt tgccgggaac actgcagaga caatgctgtg 300
agtttccaac ctcagcccat ctgcgggcag agaaggTcta gtttgTccat caccattatg 360
atatcaggac tggttacttg gttaaggagg ggtctacctc g         401

```

```

<210> 213
<211> 461
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> 239, 290, 358, 359, 391, 393
<223> n = A,T,C or G

```

```

<400> 213
tgtgaagcat acataaataa atgaagtaag ccatactgat ttaattttatt ggatgttatt 60
ttccctaaga cctgaaaaatg aacatagtat gctagtattt tttcagtgtt agccttttac 120
tttctctaca caatttgga tcatataata taggtacttt gtccctgatt aaataatgtg 180
acggatagaa tgcatacagt gtttattatg aaaagagtgg aaaagtatat agcttttanc 240
aaaaggTggt tgcccattct aagaaatgag cgaatatata gaaatagtgn gggcattttct 300
tctgttagg tggagtgtat gtgttgacat ttctcccat ctcttccac tctgtttntt 360
ccccattatt tgaataaagt gactgctgaa nangactttg aatccttatc cacttaattt 420
aatgttttaa gaaaaaccta taatggaaag tgagactcct t         461

```

<210> 214
 <211> 181
 <212> DNA
 <213> Homo sapiens

<400> 214
 cctgagcttc tactcctttc ccttaagatt cctccaaagc accagctcca taaaatcctt 60
 cagctcccca gaccacacc aagaaccca catgttaatt ggatcagcca aatctacaag 120
 cagataagtc ctaaggagaa tgccgaagcg tttttcttct tcctcaagcc tagcatgaga 180
 c 181

<210> 215
 <211> 581
 <212> DNA
 <213> Homo sapiens

<400> 215
 ctgctttaag aatgggttttc cacctttttc coctaattct taccaatcag acacatttta 60
 ttatttaaat ctgcacctct ctctatttta tttgccaggg gcacgatgtg acatatctgc 120
 agtcccagca cagtgggaca aaaagaattt agaccccaa agtgtcctcg gcatggatct 180
 tgaacagaac cagtatctgt catggaactg aacattcatc gatggtctcc atgtattcat 240
 ttattcactt gttcattcaa gtattttattg aatacctgcc tcaagctaga gagaaaagag 300
 agtgcgcttt ggaaatttat tccagttttc agcctacagc agattatcag ctcggtgact 360
 tttctttctg ccaccattta ggtgatggtg tttgattcag agatggctga atttctattc 420
 ttagcttatt gtgactgttt cagatctagt ttgggaacag attagaggcc attgtcctct 480
 gtcctgatca ggtggcctgg ctgtttcttt ggatccctct gtcccagagc caccagaac 540
 cctgactctt gagaatcaag aaaacaccca gaaaggacct c 581

<210> 216
 <211> 281
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 37, 38, 164, 176, 254
 <223> n = A,T,C or G

<400> 216
 cogatgtcct gcttctgtgg accaggggct cctctgnngg tggcctcaac cacggctgag 60
 atccctagaa gtccaggagc tgtggggaag agaagcactt agggccagcc agccgggcac 120
 ccccaattgc gccccgacct acgctcacgc accagacctg ccnnggcggt cgctcnaaag 180
 ggogaattct gcagatatcc atcacactgg cggacgctcg agcatgcac tagagggcc 240
 aattcacctt atantgagtc gtattacaat tcaactggccg t 281

<210> 217
 <211> 356
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 33, 322
 <223> n = A,T,C or G

<400> 217
 atagcagggt tcaacaattg tcttgtagtt tgnagtaaaa agacataaga aagagaaggt 60
 gtggtttgca gcaatcogta gttggtttct caccataccc tgcagttctg tgagccaaag 120
 gtcttgacaga aagttaaaat aaatcacaaa gactgctgtc atatattaat tgcataaaca 180
 cctcaacatt gctcagagtt tcatccgttt ggttaagaaa acattccttc aattcatcta 240
 tggcatttgt agtggcattg tegtctatga actcttgaag aagttctttg tattcagtct 300
 tagacacttg tggattgatt gncttggaag tcacattctc caataaggga cctcgg 356

<210> 218
 <211> 321
 <212> DNA
 <213> Homo sapiens

<400> 218
 ttgtccatcg ggagaaaggt gtttgtcagt tgtttcataa accagattga ggaggacaaa 60
 ctgctctgcc aatttctgga tttctttatt ttcagcaaac actttcttta aagcttgact 120
 gtgtgggcac tcatccaagt gatgaataat catcaagggt ttgttgcttg tcttggattt 180
 atatagagct tcttcatatg tctgagtcca gatgagttgg tcacccaac ctctggagag 240
 ggtctggggc agtttgggtc gagagtcctt tgtgtccttt ttggctccag gtttgactgt 300
 ggtatctctg gacctgcctg g 321

<210> 219
 <211> 271
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 41
 <223> n = A,T,C or G

<400> 219
 ccggttaggt ccacgcgggg gcagtggagg cacaggctca nggtggccgg gctacctggc 60
 accctatggc ttacaaagta gagttggccc agtttccttc cacctgaggg gagcactctg 120
 actcctaaca gtcttccttg ccttgccatc atctggggtg gctggctgtc aagaaaggcc 180
 gggcatgctt tctaaacaca gccacaggag gctttagagg catcttccag gtggggaaac 240
 agtcttagat aagtaagggt acttgtctaa g 271

<210> 220
 <211> 351
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 32, 43
 <223> n = A,T,C or G

<400> 220
 gtcctacgac gaggaccagc ttttcttctt cnacttttcc canaacactc ggggtgcctcg 60
 cctgcccga tttgtgtgact ggggtcagga acaggagat gtcctgcca ttttatattga 120
 caaagagttc tgcgagtggg tgatccagca aatagggcc aaacttgatg ggaaaatccc 180
 ggtgtccaga gggtttcta tegtgaagt gttcacgctg aagcccctgg agtttggcaa 240

gccaacact ttggtctgtt ttgtcagtaa tctcttccca cccatgctga cagtgaactg 300
 gtagcatcat tccgtccctg tggaaggatt tgggcctact tttgtctcag a 351

<210> 221
 <211> 371
 <212> DNA
 <213> Homo sapiens

<400> 221
 gtctgcagaa gcgtgtctga ggtgtccggt ggaggtggca gccgagctct gggactaatc 60
 accgtgctgg ggacggcacc gcgtcaggat gcaggcagat ccctgcagaa gtgtctaaaa 120
 ttcacactcc tcttctggag ggacgtcgat ggtattagga tagaagcacc aggggacccc 180
 acgaacggtg tcgtcgaaac agcagccctt atttgcacac tgggagggcg tgacaccagg 240
 aaaaccacaa ttctgtcttt cacggggggc cactgtacac gtctctgtct gggcctcggc 300
 cagggtgccg agggccagca tggacaccag gaccagggcg cagatcacct tgttctccat 360
 ggtggacctc g 371

<210> 222
 <211> 471
 <212> DNA
 <213> Homo sapiens

<400> 222
 gtccatgttc catcattaat gttccaacat caccagggac acaaagctgc aaaaatgaga 60
 agggaaataa ggtagagaa aggatccggg caatcttaag gactgaggaa gacatgttcc 120
 ccaacccttg aactcacaaa ccctgaagct caaggattgc atccttcctc caaatctcac 180
 tcaacataat aagtgcagaa caacatgcca aagcactgta tgaagcacta gggacaaaaga 240
 caaggtcaaa atccttgtaa ccaaatttaa tggattgta atgcagtgtt aacacaggac 300
 agtaacagaa cacccaagaa ccaaacagaa gagggtaggg ataagcataa atgaagtaac 360
 atgaaataaa cttccaaatg gaaaacttgt ccataccccc agggcaagtc aactacagtc 420
 tcccaaagga cataaattcc acttagggca cactagacag aaaacaatat t 471

<210> 223
 <211> 411
 <212> DNA
 <213> Homo sapiens

<400> 223
 agttgctcta caatgacaca caaatcccgt taaataaatt ataaacaagg gtcaattcaa 60
 atttgaagta atgttttagt aaggagagat tagaagacaa caggcatagc aaatgacata 120
 agctaccgat taactaatcg gaacatgtaa aacagttaca aaaataaacg aactctcctc 180
 ttgtcctaca atgaaagccc tcatgtgcag tagagatgca gtttcatcaa agaacaaaca 240
 tccttgcaaa tgggtgtgac gcggttccag atgtggattt ggcaaaacct catttaagta 300
 aaaggttagc agagcaaagt gcggtgcttt agctgctgct tgtgccgctg tggcgtcggg 360
 gaggtcctcg cctgagcttc cttccccagc tttgctgcct gagaggaacc a 411

<210> 224
 <211> 321
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 31

<223> n = A,T,C or G

<400> 224

```

ggctctgaagt ttgataacaa agaaatatat ntaagacaaa aatagacaag agttaacaat 60
aaaaacacaa ctatctgttg acataacata tggaactttt ttgtcagaaa gctacatctt 120
cttaatctga ttgtccaaat cattaataata tggatgattc agtgccattt tgccagaaat 180
tcgtttggct ggatcataga ttaacatttt cgagagcaaa tccaagccat tttcatccaa 240
gtttttgaca tgggatgcta ggcttcctgg tttccatttg ggaaatgtat tcttatagtc 300
ctgtaaagat tccacttctg g                                     321

```

<210> 225

<211> 251

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> 34

<223> n = A,T,C or G

<400> 225

```

atgtctgggg aaagagttca ttggcaaaag tgtntctcca agaatggttt acaccaagca 60
gagaggacat gtcactgaat ggggaaaggg aacccccgta tccacagtca ctgtaagcat 120
ccagtaggca ggaagatggc tttgggcagt ggctggatga aagcagattt gagataccca 180
gctccggaac gaggtcatct tctacagggt cttccttcac tgagacaatg aattcagggt 240
gatcattctc t                                     251

```

<210> 226

<211> 331

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> 26, 34, 35, 36, 37, 39

<223> n = A,T,C or G

<400> 226

```

gttaggtccc agggcccccg ccaagnnggt accnnnnntna ccaactcctga cccaaaaatc 60
aggcatggca ttaaaacggt gcaaattcct ttactgttat cccccccacc accaggacca 120
tgtaggggtgc agtctttact ccctaaccog tttcccgaaa aagggtgctac ctcctttcca 180
gacagatgag agagggcagg acttcaggct ggatccacca ctgggctctc cctccccccag 240
cctggagcac gggaggggag gtgacggctg gtgactgatg gatgggtagt gggctgagaa 300
gagggggacta ggaagggcta ttccaggctc a                                     331

```

<210> 227

<211> 391

<212> DNA

<213> Homo sapiens

<400> 227

```

aggtctgccc ttgaagtata ggaaggaatc atagttggag gacttctgca ttatttggtg 60
gctgaagcta gaagtgaac cccctcctga tttctgcagc aagatgaact gccttatccc 120
cagcccgagc gaatgttcat atctgagcaa tcaatgggca ctgtgttcaa ccacgccatt 180

```

```
<210> 228
<211> 391
<212> DNA
<213> Homo sapiens
```

```

<400> 228
gttgccata gccacctct gggatagaag cttntagtt catagttcga ttagtgtgtc 60
cttaggacat aggtccagcc ctacagatta gctgggtgaa gaaggcaagt gtctcgacag 120
ggcttagtct ccacctcag gcatggaacc attcagggtg aagcctggga tgtgggcaca 180
ggagactcag gctgatataa aaataacaaa atcagtaata aaaaaattat aaaacctgtt 240
gcttgtctga atagatttga gcaacagtct tgcttttgtt aaaatcctgg agccgttaag 300
tctgaatat tcttctggac atcattgctg gctggagaaa ggagcccag gcccggtctg 360
gctgacatct gtcaggtttg gaagtctcat c 391

```

```
<220>  
<221> misc_feature  
<222> 202  
<223> n = A,T,C or G
```

```
<210> 230
<211> 511
<212> DNA
<213> Homo sapiens
```

<400> 230						
gtccaagcca	aggaaaccat	tcccttacag	gagacctccc	tgtacacaca	ggaccgcctg	60
gggctaagg	aaatggacaa	tgcaggacag	ctagtgtttc	tggctacaga	aggggaccat	120
cttcagttgt	ctgaagaatg	gttttatgcc	cacatcatac	cattccttgg	atgaaacccg	180
tatagttcac	aatagagctc	agggagcccc	taactcttcc	aaaccacatg	ggagacagtt	240
tccctcatgc	ccaagcctga	gctcagatcc	agcttgcaac	taatccttct	atcatctaac	300
atgccctact	tggaaagatc	taagatctga	atcttatcct	ttgccatctt	ctgttaccat	360

```
<210> 231
<211> 311
<212> DNA
<213> Homo sapiens
```

```
<210> 232
<211> 351
<212> DNA
<213> Homo sapiens
```

```
<210> 233
<211> 511
<212> DNA
<213> Homo sapiens
```

```
<210> 234
<211> 221
<212> DNA
<213> Homo sapiens
```

```
<400> 234
cagggtccagc gaaggggctt cataggtac accaagcatg tccacataac cgaggaagct 60
ctctccatca gcatagcctc cgatgaccat ggtgttccac aaagggttca tcttcgagcg 120
```

```
ccggctgtac atggccctgg tcagccatga atgaatagct ctaggactat agctgtgtcc 180
atctcccaga agctcctcat caatcaccat ctggccgaga c 221
```

```
<210> 235
<211> 381
<212> DNA
<213> Homo sapiens
```

```
<220>
<221> misc_feature
<222> 33
<223> n = A,T,C or G
```

```
<400> 235
ggtccaagaa agggacatct atgtgaaagt ganactgaga cagtgtgtgt cacaggtcat 60
gctgcagaat aatacattcc caggcactgt cacgtggggg acccaagagg ccccaggagt 120
gacctataac ctctccagaa agaccactct gtgtggcatc acagtccaca cagtttaagg 180
aaatatttag acttaacaat cagacaccag ctcttaactca cacttacact cacagcccac 240
acacaagtgt gcaaacatac acacacatat atatttcctg atacattcat ggaatatcag 300
agccctgccc tgaagtcgtt agtgtctctg ctccccaac cgctgtctcc acattggcta 360
agctcctca agagacctca g 381
```

```
<210> 236
<211> 441
<212> DNA
<213> Homo sapiens
```

```
<400> 236
aggctcctgtt gcccctttct tttgccaac ttcgccattt gggaattgga atatttacct 60
aacacctgta ctgcattgaa tattggaagc aaataacttg gctttgatct tataggctca 120
cagatggagg aacgtacctt gaagttcaga tgagatttcg gacttttgag ttgatgtgta 180
aacagcttga gatttttggg gactactgag agatgataat tgtattgtgc aatatgagaa 240
ggacatgaga tttggtgggc ataggtgtga aatgacattg tttggatgtg tttaccctcc 300
aaatctcttg ttgaatgtga tcttaaactg tgggtgtggg cctagtggaa ggtgttgaat 360
catgggggtg gactcttcat aatttgctta gctccatccc cttggtgatg agcaagtcct 420
tgctctgttg tgtcacatga g 441
```

```
<210> 237
<211> 281
<212> DNA
<213> Homo sapiens
```

```
<220>
<221> misc_feature
<222> 81, 90, 194, 209, 210, 211, 219, 233
<223> n = A,T,C or G
```

```
<400> 237
tcttaaaaaa ttagctgacc ttgttaaaaa tgttggcgtg agcagtatat tattacctat 60
ctttttttat tgttgtgtgt ngtgtgtgtn ttaaactaat tggctgaaat atctgcctgt 120
ttccctcttt acatttttct tgtttcttct cttattttat tttgtccatc ttgagatcta 180
ctgtaaagtg aatnttttaa tgaaaacann nccaagtnt actctcactg ggnttgggac 240
atcagatgta attgagaggc caacaggtaa gtcttcatgt c 281
```

<210> 238
 <211> 141
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 30, 85
 <223> n = A,T,C or G

<400> 238
 gtctgcctcc tcctactggt tccctctatn aaaaagcctc cttggcgag gttccctgag 60
 ctgtgggatt ctgcactggg gcttnggatt cctgatatg ttccttcaaa tccactgaga 120
 attaaataaa catcgctaaa g 141

<210> 239
 <211> 501
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 29, 30, 65, 86, 471, 489
 <223> n = A,T,C or G

<400> 239
 aacaatctaa acaaatccct cggttctann atacaatgga ttcccatat tggaaggact 60
 ctgangcttt attccccac tatgcntatc ttatcatttt attattatac acacatccat 120
 cctaaactat actaaagccc ttttcccatg catggatgga aatggaagat ttttttttaa 180
 cttgttctag aagtcttaat atgggctggt gccatgaagg cttgcagaat tgagtccatt 240
 ttctagctgc ctttattcac atagtgatgg ggtactaaaa gtactgggtt gactcagaga 300
 gtcgctgtca ttctgtcatt gctgctactc taacactgag caacactctc ccagtggcag 360
 atccccgtga tcattccaag aggagcattc atccctttgc tctaataatg aggaatgatg 420
 cttattagaa aacaaactgc ttgaccaggg aacaagtggc ttagcttaag naaacttggc 480
 tttgctcana tccctgatcc t 501

<210> 240
 <211> 451
 <212> DNA
 <213> Homo sapiens

<400> 240
 tgtcctgaaa ggccattact aatagaaaca cagcctttcc aatcctctgg aacatattct 60
 gtctggggtt ttaatgtctg tggaaaaaaa ctaaacaagt ctctgtctca gtttaagagaa 120
 atctattggg ctgaagggtt ctgaacctct ttctgggtct cagcagaagt aactgaagta 180
 gatcaggaag gggctgcctc aggaaaattc ctgatcccta ggaattcagt gagaccctgg 240
 gaaggaccag catgctaata agtgtcagtg aatccacagt ctttacttcc tgccatcataa 300
 agggccaggt ctccccagta ccaagtcctt tcctcatgaa gttgtgttgc ctccaggctgt 360
 ttagggaacca ttgcctgtct tggtcacatg agtctgtctc cttacttttag tccctgggca 420
 atccttgctt aatgcttttg ttgactcaac g 451

<210> 241
 <211> 411
 <212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> 62, 82, 364, 370, 385

<223> n = A,T,C or G

<400> 241

```
aatctccagt gtgatggtat cgggggttaga gtttcaatct ccagtgtgat ggtactgcag 60
cnagagcttc aatctccagt gngatggtat taggggttaga ttttcaatct ccagtgtgat 120
ggtatcaggg ttagagcttc agcctccagt gtgatggtat caggggttaga gcttcagcct 180
ccagtgtgat ggtatcgggg ttagatcttc aatccccagt ggtggtggtt agagcttcaa 240
tctccagtgt gatggtattg ggggttagagc ttcaatctcc agtctgatgg tgtttcggga 300
tggggctttt aagatgtaat taggggtttaa gatcataagg gacctggtct gatggggatt 360
agtncgcttn tatgaagaga cacangaggg cttgctctat ctctgactct c 411
```

<210> 242

<211> 351

<212> DNA

<213> Homo sapiens

<400> 242

```
ttccccttca caacagtaga gacctacaca gtgaactttg gggacttctg agatcagcgt 60
cctaccaaga cccagccca actcaagcta cagcagcagc acttcccaag cctgctgacc 120
acagtcacat caccatcag cacatggaag gcccctggta tggacactga aaggaagggc 180
tggtcctgcc cttttgaggg ggtgcaaaca tgactgggac ctaagagcca gaggctgtgt 240
agaggtcct gctccacctg ccagtctcgt aagaaatggg gttgctgcag tgttgagta 300
ggggcgagagg gagggagcca aggtcactcc aataaaacaa gctcatggca c 351
```

<210> 243

<211> 241

<212> DNA

<213> Homo sapiens

<400> 243

```
gtctgtgctt tatcaggaaa agcacaagaa tatgtttttc tacctaaaac cctcttctac 60
tttaaaaatg gtttgctgaa tttttctatg tttttaaaat gtttttatgc ttttttttaa 120
acacgtaaag gatggaacct aatcctctcc cgagacgcct cttttgtgtt aatgcctatt 180
cttacaacag agaaacaagt acattaatat aaaaacgagt tgattattgg ggtataaaaat 240
a 241
```

<210> 244

<211> 301

<212> DNA

<213> Homo sapiens

<400> 244

```
ggtccagagc aatagcgtct gtggtgaagc gcctgcactc ctcgaggagac atgcctggct 60
tatatgctgc atccacataa ccatagataa aggtgctgcc ggagccacca atggcaaaag 120
gctgtcgagt cagcattcct cccagggttc catatacctg acctccttca cgttgggtccc 180
agccagctac catgagatgt gcagacaagt cctctcgata tttatagctg atatttctca 240
ccacatttgc agcagccaaa acaagtggag gttcctccag ttctatccca tggagctcca 300
g 301
```


<210> 245
 <211> 391
 <212> DNA
 <213> Homo sapiens

<400> 245
 ctgacactgc tgatgtgggc cgggggggcgc cgaggcacaa ctggtggccg gaccattgag 60
 gcacctggag ggtaggcagc ttgtgggtgca gacaccacag agagagaaaa gttggatgga 120
 gtggtgggaa taatcagggt ggcacactgt gcctagaagc ttccagggcc accaagagaa 180
 tgggaaggga aactacaaca ttcacaacag aaataggagt caattcactt agaccagaa 240
 ctccagaaag ggggagtgtg ggaatctaca atttcaaagc cagctcgtgt ctacctagag 300
 ccccaaactg cataagcacc aggattgtac accttagtcc ctcaagatag tttcaagtga 360
 gcgtgcaatt cactcttaca gaggagggcc t 391

<210> 246
 <211> 291
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 26, 80, 82, 185, 255, 259
 <223> n = A,T,C or G

<400> 246
 tcctccacag gggaagcagg aagttngacc agcttcaggc tggaacgtgc ccagggcaca 60
 gagctggcaa ggtgcaaagn cntctgcaga atattcacca ggttgacaca gacctccaca 120
 ttcagacata ttccaagctt ctgggggtctt cagggcccca gaatttcctg gtcttgggca 180
 tggtnccaaa gtcattttgtc ctctctcatt ttggaagggt ccatttggac ataaaatgca 240
 agcgttctcg tgctncatna taataggtcc cagcctgcac tgacacattt g 291

<210> 247
 <211> 471
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 80, 110, 125, 245, 249, 279, 318, 336, 339, 455, 471
 <223> n = A,T,C or G

<400> 247
 cactgagtga atgagtatat aatttatgaa aacagaaaag tgctttggaa aaaaaaaaaag 60
 acaacaggag tacatacagn gaacccaaaa gagtgtacca ggaggagcan accctgaaca 120
 gttanaacta tggaaatcgc tatgctttgt gttgtcacag gagttaaaat aggaataccc 180
 tgcatacaat aaatatattat tggataaata actaagcctg ataccctttt caatgcgtta 240
 tacanactnt atcatcacac cactaatcta agttctcana agttaaacat tacaagactt 300
 cagaacaaca taggcgtntt tggctccatt taacanaana aggaccatag tgatcattta 360
 atctctatga gtctgtctta tcttctggaa aaggggccta acaccatttc cttttgcaaa 420
 aaggtagctg ccttgcttcc agttctacca tcctntagca acccatcttt n 471

<210> 248
 <211> 551
 <212> DNA

<213> Homo sapiens

<400> 248

```
ccatgggatc aggaatgggg tcaggtcagt tgacctgagc ataccatta aacatgttca 60
aatgtcccca tcccaccac tcacatgaca tggctcccga gccctgagat ctgtatccca 120
agaacctcag ttgagaaata tttatggcag cttcactgtt gctcaagagc ctgggtattg 180
tagcagcctg ggggacagggt gtccctaagt ttctccaagt tcttcacatc agccagaatc 240
ccatctatgc ttgtctccag caaatggagg tggccctctt gctgacgtgc cctctcttcc 300
agctctgaca tcatgggccc cagttggctg ttgatctggg tcttggctcg ggaaagcttc 360
tgctccagta agaccagccc ctcttcatct aactgagag gctgggccat cagatgcagg 420
aggccgtcta atgtgttgag tgtgtcttgg attgtaacct cagcgttctt ggctctggta 480
tcaaccttct gggttctgt aatcaccatc tgtactgcat ccatattcgt gtcgaactcc 540
agtccttcc t 551
```

<210> 249

<211> 181

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> 3, 96

<223> n = A,T,C or G

<400> 249

```
atntccagag ggaccgtaag actggtacaa gtttacacca taagaggcga cgtggtcagc 60
cacaatgtct tcacctccac aggggctcat cacgngggtc agggcaaggg cccccagcat 120
cagagctttg tttagatca tctcttccc aaggcagcct tagcagttgc tgacctgccc 180
g 181
```

<210> 250

<211> 551

<212> DNA

<213> Homo sapiens

<400> 250

```
tctgtagcta ggatgagctg gctctcaagc aaaagtttgt cttcctgggt ccatttgtgg 60
ttatcacttg ttattgaatg tacatcaca attaaagtct gcattgttgg acgtaagaga 120
atgtgccgac tttggtaacc aggagatttc atgttactgg actgcctgta gtcacgtatt 180
tctgctatga cacatccgca atgaaaaata ttaacctgag atttttctag gagatcaacc 240
aaaataggag gtaattcttc tgcattccaa tattcaagca actctccttc ttcatagggc 300
agtcgaatgg tctcggaatc tgatccgttt tttcccctga gcatcagaga atatccctca 360
tttcttgggt atagattgac cactaaacat gacaaagtct cttgcataac aagcttctct 420
aacaagttca catttcttct taatttctta acttcagggt ctttttcaca ttcttcaata 480
tacaagtcac aaagtttttg aaatacagat tttcttccac ttgataggta tttcctttta 540
ggaggtctct g 551
```

<210> 251

<211> 441

<212> DNA

<213> Homo sapiens

<400> 251

```
tgctgtctct cccatcctgg ttactatgag tcgctcttgg cagaaaggac cacagatgga 60
```

```

gagcttggca ctcgctccaa ctttgccgaa aagaggacaa ccaccaaagt agtaggtaaa 120
aacacaatth tagcagcagt gaaataaaaa gaggaagtga ggatggggcc aggccgcaac 180
tataattaaa ctgtctgttt aggagaagct gaatccagaa gaaacacaag ctgtaaagtg 240
agagaggaca gggagcaggg cttttggaga gcaggagagg acaggctgtc accaagcgct 300
gctcggactc tgccctgaaa gatttgaatt ggacactgtc cagtcacgtg tgtggcaaac 360
cgtactccaa gcacttttct cacggcagag gaaggagctg ccatggctgt acccctgaac 420
gtttgtgggg ccagcgatgt g                                     441

```

<210> 252

<211> 406

<212> DNA

<213> Homo sapiens

<400> 252

```

tttttttttg aacaagtaaa aatttcttta tttgctgaca ataagataac ctacagggaa 60
aacctgatga aatctattaa aaagtacta aaactaataa aagaatttag gaaggttata 120
gaatgtaaga ccaagacaca aaaatcaatt acatttctat ataatagcaa tgaacagata 180
ctgaaattht aaaaactaaa tcattttaca aaagtatcac aatatgaaac actccgggat 240
aaattggata aaagatgtgc aagactgtac aaaagctaca aaacatttat gaaggaaatt 300
ggaagataga aacaagatag aaaatgaaaa tattgtcaag agtttcagat agaaaatgaa 360
aaacaagcta agacaagtat tggagaagta tagaagatag aaaaat                                     406

```

<210> 253

<211> 544

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> 224

<223> n = A,T,C or G

<400> 253

```

gaaggagtgc agtagcaaa gtcacacctgt ccaattccct gagctttgct cactcagcta 60
atgggatggc aaagggtggtg gtgctttcat cttcaggcag aagcctctgc ccatccccct 120
caagggtctg aggccaggtt ctcatgtctg ccttgggtgg gcactctgta acagaggaga 180
acgtctgggt ggcggcagca gctttgctct gactgcctac aaanctaag cttgggtgcta 240
gaaacatcat cattattaaa cttcagaaaa gcagcagcca tggtcagtca ggctcatgct 300
gcctcactgc ttaagtgcct gcaggagccg cctgccaagc tccccttcct acacctggca 360
cactggggtc tgcacaaggc tttgtcaacc aaagacagct tccccctttt gattgcctgt 420
agactttgga gccaaagaa actctgtgtg actctacaca cacttcaggt ggtttgtgct 480
tcaaagtcac tgatgcaact tgaaaggaaa cagtttaatg gtggaaatga actaccattt 540
ataa                                     544

```

<210> 254

<211> 339

<212> DNA

<213> Homo sapiens

<400> 254

```

tggcattcag ggcagtgtct tctgcatctc ctaggaacct cgggagcggc agctccggcg 60
cctggtagcg agaggcgggt tccggagatc ccggcctcac ttcgtccac tgtggttagg 120
ggtgagtcct gcaaatgtta agtgatttgc tcaagggtgcc catttcgcag gaattggagc 180
ccaggccagt tctctgagcc tatcattagg gctaaaggag tgcgtgatca gaatggtgtc 240

```

tggacgggttc tacttgtcct gcctgctgct ggggtccctg ggctctatgt gcctcctctt 300
cactatctac tggatgcagt actggcgtgg tggctttgc 339

<210> 255
<211> 405
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> 11, 39, 70, 87, 103, 120, 177, 181, 220, 229, 233, 341, 345,
366, 380, 402
<223> n = A,T,C or G

<400> 255
gagggtttttt nttttttttt tttttttttt caattaaana tttgatttat tcaagtatgt 60
gaaaacattt tacaatggaa acttttntta aatgctgcat gtnctgtgct atggaccacn 120
cacatacagc catgctgttt caaaaaactt gaaatgccat tgatagttaa aaaactntac 180
ncccgatgga aaatcgagga aaacaattta atgtttcatn tgaatccana ggngcatcaa 240
attaaatgac agctccactt ggcaataat agctgttact tgatggatc caaaaaaaaa 300
tggttgggga tggataaatt caaaaatgct tccccaaagg ngggnggttt ttaaaaagtt 360
tcaggncaca acccttgcan aaaacactga tgcccaacac antga 405

<210> 256
<211> 209
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> 6
<223> n = A,T,C or G

<400> 256
gggcangtct ggtcctctcc ccacatgtca cactctcttc agcctctccc ccaaccctgc 60
tctccctcct cccctgccct agcccaggga cagagtctag gaggagcctg gggcagagct 120
ggaggcagga agagagcact ggacagacag ctatggtttg gattggggaa gaggttagga 180
agtaggttct taaagaccct ttttttagta 209

<210> 257
<211> 343
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> 306, 311, 343
<223> n = A,T,C or G

<400> 257
tctggacacc ataatccctt ttaagtggct ggatggtcac acctctccca ttgacaagct 60
gggttaagtc aataggttga ctaggatcaa cagacccaa atcaataaga tactgcagtc 120
tattgagact caaaggetta tactggcgtc tgaaactatg tccttcgtta aaccctgatt 180
ttgggattcg gatgtaaaat ggagtctggc ctccctcaaa gcccaagcgg ggccgggttc 240

```
ctctttgcct ttctccttta tggcctctgc cacatcttct acctcttctc cgacctcttg 300
gtcttntctc nggtttcttg gagccgggat tcggctttaa gtn 343
```

<210> 258

<211> 519

<212> DNA

<213> Homo sapiens

<400> 258

```
gcggtcttctg acttctagaa gactaaggct ggtctgtgtt tgcttgtttg cccacctttg 60
gctgataccc agagaacctg ggcacttgct gcctgatgcc caccctgcc agtcattcct 120
ccattcaccc agcgggaggt gggatgtgag acagcccaca ttggaaaatc cagaaaaccg 180
ggaacaggga tttgcccttc acaattctac tccccagatc ctctcccctg gacacaggag 240
acccacaggg caggacccta agatctgggg aaaggagggtc ctgagaacct tgaggtacct 300
ttagatcctt ttctaccac ttctctatgg aggattccaa gtcaccactt ctctaccgg 360
cttctaccag ggtccaggac taaggcggtt tctccatagc ctcaacattt tgggaatctt 420
cccttaatca cccttgctcc tctgggtgct ctggaagatg gactggcaga gacctctttg 480
ttgcgttttg tgctttgatg ccaggaatgc cgcctagtt 519
```

<210> 259

<211> 371

<212> DNA

<213> Homo sapiens

<400> 259

```
attgtcaact atatacacag tagtgaggaa taaaatgcac acaaaacaat ggatagaata 60
tgaaaatgtc ttctaaatat gaccagtcta gcatagaacc ttcttctctt ccttctcagg 120
tcttccagct ccattgtcat taaccactt aacaaacgtg gacgtatcgc ttccagaggc 180
cgtcttaaca actccatttc caaaagtcac ctccagaaga catgtatttt ctatgatttc 240
ttttaaacia atgagaattt acaagatgtg taactttcta actctatttt atcatacgtc 300
ggcaacctct ttccatctag aagggtctaga tgtgacaaat gttttctatt aaaaggttgg 360
ggtggagttg a 371
```

<210> 260

<211> 430

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> 57, 189, 208, 256, 426

<223> n = A,T,C or G

<400> 260

```
ttggattttt tgacttgcga tttcagtttt tttacttttt tttttttttt ttttganaaa 60
tactatatatt attgtcaaag agtggtacat aggtgagtg tcatcttccc tctcatgccc 120
gtatactctg ctctcgtgtt tcagtaaaag ttttccgtag ttctgaacgt cccttgacca 180
caccataana caagcgcaag tcactcanaa ttgccactgg aaaactggct caactatcat 240
ttgaggaaag actganaaag cctatcccaa agtaatggac atgcaccaac atcgcggtac 300
ctacatgttc ccgtttttct gccaatctac ctgtgtttcc aagataaatt accacccagg 360
gagtcacttc ctgctatgtg aacaaaaacc cggtttcttt ctggaggtgc ttgactactc 420
tctcngnagc 430
```

<210> 261

<211> 365
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 178
 <223> n = A,T,C or G

<400> 261
 tcctgacgat agccatggct gtaccactta actatgattc tattccaact gttcagaatc 60
 atatcacaaa atgacttgta cacagtagtt tacaacgact cccaagagag gaaaaaaaaa 120
 aaaaaagacg cctcaaaatt cactcaactt ttgagacagc aatggcaata ggcagcanag 180
 aagctatgct gcaactgagg gcacatatca ttgaagatgt cacaggagtt taagagacag 240
 gctggaaaaa atctcatact aagcaaacag tagtatctca taccaagcaa aaccaagtag 300
 tatctgctca gcctgccgct aacagatctc acaatcacca actgtgcttt aggactgtca 360
 ccaaa 365

<210> 262
 <211> 500
 <212> DNA
 <213> Homo sapiens

<400> 262
 cctagatgtc atttgggacc cttcacaacc attttgaagc cctgtttgag tccctgggat 60
 atgtgagctg tttctatgca taatggatat tcgggggttaa caacagtccc ctgcttggct 120
 totattctga atccttttct ttcaccatgg ggtgcctgaa ggtggtctga tgcataatgg 180
 acaatggcac ccagtgtaaa gcagctacaa ttaggagtgg atgtgttctg tagcatccta 240
 tttaaataag cctattttat cctttggccc gtcaactctg ttatctgctg cttgtactgg 300
 tgctgtact tttctgactc tcattgacca tattccacga ccatgggtgt catccattac 360
 ttgatcctac tttacatgtc tagtctgtgt ggttgggtgt gaataggctt ctttttacat 420
 ggtgctgcca gcccagctaa ttaatgggtgc acgtggactt ttagcaagcg ggctcactgg 480
 aagagactga acctggcatg 500

<210> 263
 <211> 413
 <212> DNA
 <213> Homo sapiens

<400> 263
 ctcaagagagg ttgaaagatt tgcctacgaa agggacagtg atgaagctaa gctctagatc 60
 caggatgtct gacttcaaat tgaaactccc aaagtaatga gtttggaagg gtgggggtgtg 120
 gcctttccag gatgggggtc ttttctgtct ccagcggata gtgaaacccc tgtctgcacc 180
 tggttgggctg tgttgctttc ccaaagggtt tttttttagg tccgtcgtct tcttgtggat 240
 taggcattat tatctttact ttgtctccaa ataacctgga gaatggagag agtagtgacc 300
 agctcagggc cacagtgcga tgaggaccat cttctcacct ctctaaatgc aggaagaaac 360
 gcagagtaac gtggaagtgg tccacaccta ccgccagcac attgtgaatg aca 413

<210> 264
 <211> 524
 <212> DNA
 <213> Homo sapiens

<400> 264

```

tccaatgggg ccctgagagc tgtgacagga actcacactc tggcactggc agcaaaacac 60
cattccaccc cactcatcgt ctgtgcacct atgttcaaac tttctccaca gttccccaat 120
gaagaagact catttcataa gtttgtggct cctgaagaag tcctgccatt cacagaaggg 180
gacattctgg agaaggtcag cgtgcattgc cctgtgtttg actacgttcc cccagagctc 240
attaccctct ttatctccaa cattgggtggg aatgcacctt cctacatcta ccgcctgatg 300
agtgaactct accatcctga tgatcatggt ttatgaccga ccacacgtgt cctaagcaga 360
ttgcttaggc agatacagaa tgaagaggag acttgagtgt tgctgctgaa gcacatcctt 420
gcaatgtggg agtgcacagg agtccaccta aaaaaaaaaa tccttgatac tgttgccctgc 480
ctttttagtc accccgtaac aagggcacac atccaggact gtgt 524

```

<210> 265

<211> 344

<212> DNA

<213> Homo sapiens

<400> 265

```

tcctttcttc tacttcagga gatgattcaa agttacttgt ggacatttct ttaagttctg 60
aagacaaatg agacaggatt tggcctgcgg gttcttcaga cttctctacc acctccatta 120
actcttcatac ttggcttgac gtaggcaatg cactattttg ctcttttgtt tctggagatg 180
accagcacc acttctttct cttggcgggg ttctaagtgt gtctttgaat accagtgaag 240
actcaggcct atcctgtact ggaaaggac taaatttgtc tttctgtcta ggaggtgatg 300
cagtagcatc ctctgaggg ggtaaggcca ttttctcttt ttga 344

```

<210> 266

<211> 210

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> 78

<223> n = A,T,C or G

<400> 266

```

ccacaatgtc cataacttga gcaggctttg gcatcccacc acccccttca gaccaatata 60
cactatgttg gaggaacnac tttaaaatgt aaaatgagaa atgggcactg aacactccat 120
cctcactccc aacagcccac ccacacacct cttcaactgc tatccaaaca tggaggagct 180
cttgtggaag agaggctcaa caccaaataa 210

```

<210> 267

<211> 238

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> 5, 19, 31

<223> n = A,T,C or G

<400> 267

```

tcggnccctc caccctctna ctgaaattct ntgaaattct cccctttggg atgaggatgg 60
caacccaggg catgtacct cccaacctgg gacccgacct aataccctaa catcctgctg 120
acagtggctg ttctcgctgg gcaggcgtcc caaagcacat cgagccagat tcaggcagag 180
tggaactggc cctcagcca tcagtggagg tggcctggga ggctctacc tgaacggg 238

```

<210> 268
 <211> 461
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 459
 <223> n = A,T,C or G

<400> 268
 tcctcaagga catgcccctt gatagaaact cagttcctgt ctccagttcc ctccctggacc 60
 tgatccccc aatgcagggc ctgggactat atccagttcc ttattttcag aggcccatgc 120
 acaagatgca cagcaaataa gtgctgaata aagaccagc tactgctagc ttaccctgct 180
 ccaaacattc accaagtcct cagcaaagag ggccatccat tcacctcttc taaaaacaca 240
 ctgagctccc cagtctatac cccaagatat gcttggtccc caactatccc tcctctctca 300
 tctccaagcc agtttcccct ttctaagtat actgatatta ccaaagacac tgacaatctt 360
 cttttcctac ctctcccag tgactagggt tgcagcagga gctctataag tcctagtata 420
 cagcagaagc tccataaatg tgtgctgacc taacattang c 461

<210> 269
 <211> 434
 <212> DNA
 <213> Homo sapiens

<400> 269
 ctgtgttggg gagcaccgat tcccactcaa tatggcgtgg cttacagtct tcattagggt 60
 cccgctccc accagaatga ggaatgatca cttcatctgt caaggcatgc agtgcattgg 120
 ccacaatctc catthttgatt gagtcatggg atgaaagatt ccacagggtt ccggtataa 180
 cttcagtaag gtccatatca cgagcctttc gaagcaatcg cacaagggca ggcacaccat 240
 cacagttttt tatggcaatc ttgttatcct ggtcacgtcc aaaagagata ttcttgagag 300
 ctccacaggc tccaaggtgc acttcctttt tgggatggtc taacaatccc accagtactg 360
 ggatgccctt gagcttccgc acgtcagctc tcacctgtc attgcggtag cataagtgtt 420
 gcaggtatgc aaga 434

<210> 270
 <211> 156
 <212> DNA
 <213> Homo sapiens

<400> 270
 ctgcaccagc gattaccagt ggcattcaaa tactgtgtga ctaaggattt tgtatgctcc 60
 ccagtagaac cagaatcaga caggtatgag ctagtcaaca gcaagtcctt gttggattcg 120
 agtaggetca ggatctgctg aaggtcggag gagtta 156

<210> 271
 <211> 533
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 100, 137, 383, 385, 411

<223> n = A,T,C or G

<400> 271

```
ccactgtcac ggtctgtctg acacttactg ccaaacgcat ggcaaggaaa aactgcttag 60
tgaagaactt agaagctgtg gagaccttgg ggtccacgtn caccatctgc tctgataaaa 120
ctggaactct gactcanaac cggatgacag tggcccacat gtggtttgac aatcaaattcc 180
atgaagctga tacgacagag aatcagagtg gtgtctcttt tgacaagact tcagctacct 240
ggcttgctct gtccagaatt gcagggtcttt gtaacagggc agtgtttcag gctaaccagg 300
aaaacctacc tattcttaag cgggcagttg caggagatgc ctctgagtca gcactcttaa 360
agtgcataga gctgtgctgt ggntnctgta aggagatgag agaaagatac nccaaaatcg 420
tcgagatacc cttcaactcc accaacaagt accagttgtc tattcataag aacccaaca 480
catcggagcc ccaacacctg ttggtgatga agggcgcccc agaaaggatc cta 533
```

<210> 272

<211> 630

<212> DNA

<213> Homo sapiens

<400> 272

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tggtattttt ctttttcttt tggatgtttt atactttttt ttcttttttc ttctctattc 60
ttttcttcgc ctccccgtac ttctgtcttc cagttttcca cttcaaactt ctatcttctc 120
caaattgttt catcctacca ctcccaatta atctttccat ttctgtctgc gtttagtaaa 180
tgcgttaact aggttttaaa tgacgcaatt ctccctgcgt catggatttc aagggtcttt 240
aatcaccttc ggtttaatct ctttttaaaa gatcgccctc aaattatttt aatcacctac 300
aacttttaaa ctaaacttta agctgtttta gtcaccttca ttttaattct aaagcattgc 360
ccttctattg gtattaattc ggggctctgt agtcctttct ctcaattttc ttttaaatat 420
attttttact ccatgaagaa gcttcattct aacctccgtc atgtttttag aaccttttat 480
cttttccttc ctcatgctac tcttctaagt cttcatattt tctcttaaaa tcttaagcta 540
ttaaaattac gttaaaaaact taacgctaag caatatctta gtaacctatt gactatattt 600
tttaagtagt tgtattaatc tctatctttc 630
```

<210> 273

<211> 400

<212> DNA

<213> Homo sapiens

<400> 273

```
tctggtttgc cctccagttc attctgaatc tagacttgct cagcctaatc aagttcctgt 60
acaaccagaa gcgacacagg ttccctttgg atcatccaca agtgaggggt acacagcatc 120
tcaacccttg taccagcctt ctcatgctac agagcaacga ccacagaagg aaccaattga 180
tcagattcag gcaacaatct ctttaaatat agaccagact acagcatcat catcccttcc 240
tgctgcgtct cagcctcaag tatttcaggc tgggacaagc aaacctttac atagcagtg 300
aatcaatgta aatgcagctc cattccaatc catgcaaagc gtgttcaata tgaatgcccc 360
agttcctcct gttaatgaac cagaaacttt aaaacagcaa 400
```

<210> 274

<211> 351

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> 2

<223> n = A,T,C or G

<400> 274
 tntgagtatg tcccagagaa ggtgaagaaa gcggaaaaga aattagaaga gaatccatat 60
 gaccttgatg cttggagcat tctcattcga gaggcacaga atcaacctat agacaaaagca 120
 cggaagactt atgaacgcct tgttgcccag ttccccagtt ctggcagatt ctggaaaactg 180
 tacattgaag cagagggttac tattttattt tattttttct tatatcagta ttgcagcatt 240
 cactgtagtg atagaaaaca agttaggaac atagccaatt aggacaagga ggattttaat 300
 gtgtccttacc tttattttgt aaaataggtta taaaggagta attaaaatga a 351

<210> 275
 <211> 381
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 4, 11, 12, 13
 <223> n = A,T,C or G

<400> 275
 gcngggtcgc nncgaggtc tgagaagccc ataccactat ttgttgagaa atgtgtggaa 60
 tttattgaag atacagggtt atgtaccgaa ggactctacc gtgtcagcgg gaataaaact 120
 gaccaagaca atattcaaaa gcagtttgat caagatcata atatcaatct agtgtcaatg 180
 gaagtaacag taaatgctgt agctggagcc cttaaagctt tctttgcaga tctgccagat 240
 cctttaattc catattctct tcatccagaa ctattggaag cagcaaaaat cccggataaa 300
 acagaacgtc ttcatgcctt gaaagaaatt gtaagaaat ttcatcctgt aaactatgat 360
 gtattcagat acgtgataac a 381

<210> 276
 <211> 390
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 5
 <223> n = A,T,C or G

<400> 276
 gctcngactc cggcgggacc tgctcggagg aatggcgccg ccgggttcaa gcactgtctt 60
 cctgttggcc ctgacaatca tagccagcac ctgggctctg acgcccactc actacctcac 120
 caagcatgac gtggagagac taaaagcctc gctggatcgc cctttcacia atttggaatc 180
 tgccttctac tccatcgtgg gactcagcag ccttggtgct caggtgccag atgcaaagaa 240
 agcatgtacc tacatcagat ctaaccttga tcccagcaat gtggattccc tcttctacgc 300
 tgcccaggcc agccaggccc tctcaggatg tgagatctct atttcaaag agaccaaaga 360
 tctgcttctg gcagacctcg gccgcgacca 390

<210> 277
 <211> 378
 <212> DNA
 <213> Homo sapiens

<400> 277
 tgggaacttc tggggtagga cgttgtctgc tatctccagt tccacagacc caaccagtta 60

cgatggtttt ggaccattta tgccgggatt cgacatcatt ccctataatg atctgcccgc 120
 actggagcgt gctcttcagg atccaaatgt ggctgcgttc atggtagaac caattcaggg 180
 tgaagcaggc gttgttggtc cggatccagg ttacctaatg ggagtgcgag agctctgcac 240
 caggcaccag gttctcttta ttgctgatga aatacagaca ggattggcca gaactggtag 300
 atggctggct gttgattatg aaaatgtcag acctgatata gtcctccttg gaaaggccct 360
 ttctgggggc ttataccc 378

<210> 278

<211> 366

<212> DNA

<213> Homo sapiens

<400> 278

ggagggcaca ttccttttca cctcagagtc ggtcggggaa ggccacccag ataagatttg 60
 tgaccaaacc agtgatgctg tccttgatgc ccaccttcag caggatcctg atgcaaagt 120
 agcttgtaga actgttgcta aaactggaat gatccttctt gctggggaaa ttacatccag 180
 agctgctgtt gactaccaga aagtgggtcg tgaagctgtt aaacacattg gatatgatga 240
 ttcttccaaa ggttttgact acaagacttg taacgtgctg gtagccttgg agcaacagtc 300
 accagatatt gctcaagggtg ttcatcttga cagaaatgaa gaagacattg gtgctggaga 360
 ccaggg 366

<210> 279

<211> 435

<212> DNA

<213> Homo sapiens

<400> 279

cctaagaact gagacttggtg acacaaggcc aacgacctaa gattagccca gggttgtagc 60
 tggaagacct acaacccaag gatggaaggc ccctgtcaca aagcctacct agatggatag 120
 aggacccaag cgaaaaagat atctcaagac taacggcccg aatctggagg cccatgacct 180
 agaacccagg aaggatagaa gcttgaagac ctggggaaat cccaagatga gaacctaaa 240
 cccactctct tttctattgt ttacacttct tactcttaga tatttccagt tctcctgttt 300
 atctttaagc ctgattcttt tgagatgtac tttttgatgt tgccgggttac ctttagattg 360
 acaagtatta tgcttgccca gtcttgagcc agctttaaat cacagctttt acctatttgt 420
 taggctatag tgttt 435

<210> 280

<211> 435

<212> DNA

<213> Homo sapiens

<400> 280

tctggatgag ctgctaaactg agcacaggat gacctgggac ccagcccagc cccccgaga 60
 cctgactgag gccttctctgg caaagaagga gaaggccaag gggagccctg agagcagctt 120
 caatgatgag aacctgcgca tagtggtggg taacctgttc cttgccggga tggtagcac 180
 ctgcaccacg ctggcctggg gcctcctgct catgatccta cacctggatg tgcagcgtga 240
 gccagacct gtccggggcg ccgctcgaaa ttccagcaca ctggcgggcg ttactagtgg 300
 atccgagctc ggtaccaagc ttggcgtaat catggtcata gctgtttcct gtgtgaaatt 360
 gttatccgct cacaattcca cacaacatac gagccggaag cataaagtgt aaagcctggg 420
 gtgcctaagt agtga 435

<210> 281

<211> 440

<212> DNA

<213> Homo sapiens

<400> 281

```
catctgatct ataaatgcgg tggcatcgac aaaagaacca ttgaaaaatt tgagaaggag 60
gctgctgaga tgggaaaggg ctcccttcaag tatgcctggg tcttggataa actgaaagct 120
gagcgtgaac gtggtatcac cattgatatc tccttgtgga aatttgagac cagcaagtac 180
tatgtgacta tcattgatgc cccaggacac agagacttta tcaaaaacat gattacaggg 240
acatctcagg ctgactgtgc tgtcctgatt gttgctgctg gtgttggtga atttgaagct 300
ggtatctcca agaatgggca gacccgagag catgcccttc tggcttacac actgggtgtg 360
aaacaactaa ttgtcgggtg taacaaaatg gattccactg agccccctac agccagaaga 420
gatatgagga aattgttaag 440
```

<210> 282

<211> 502

<212> DNA

<213> Homo sapiens

<400> 282

```
tctgtggcgc aggagcccc tcccccgga gctctgacgt ctccaccgca gggactgggtg 60
cttctcggag ctccactcc tcagactccg gtggaagtga cgtggacctg gatccactg 120
atggcaagct cttcccagc gatggttttc gtgactgcaa gaagggggat cccaagcacg 180
ggaagcggaa acgaggccgg ccccgaaagc tgagcaaaga gtactgggac tgtctcgagg 240
gcaagaagag caagcacgcg cccagaggca cccacctgtg ggagtccatc cgggacatcc 300
tcatccaccc ggagctcaac gagggcctca tgaagtggga gaatcggcat gaaggcgtct 360
tcaagttcct gcgctccgag gctgtggccc aactatgggg ccaaaagaaa aagaacagca 420
acatgacctt cgagaagctg agccgggcca tgaggtaact ctacaaacgg gagatccttg 480
aacgggtgga tggccggcga ct 502
```

<210> 283

<211> 433

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> 130, 147, 221, 225, 242, 246, 261, 279, 292, 294, 298, 314, 323, 332, 339, 342, 343, 350, 351, 356, 361, 362, 368, 372, 375, 379, 380, 382, 387, 390, 392, 394, 401, 404, 406, 409, 413, 423, 431, 433

<223> n = A,T,C or G

<400> 283

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ccatattaga ttactggaac atctaagcat cagtgtgtga ccatgcgaac aaaagacttc 60
ggggagtgtc tattttttaa aaggtttatg tgtgtcgagg cagttgtaaa agatttactg 120
cagaatcaan cccactttta ggcttangac caggttctaa ctatctaaaa atattgactg 180
ataacaaaaa gtgttctaaa tgtggctatt ctgatccata nttgnttttt aaagaaaaaa 240
antgntata cagaaagagt ntaaaagttc tgtgaattna atgcaaatta gncnccantc 300
ttgacttccc aanacttga ttnatacctt tnactcctnt cnnttcctgn ncttcnttaa 360
nntcaatnat tnggnagtnn anggcctcn gnanaacacc nttncnctg cncgcgaatc 420
canccgcctt nan 433
```

<210> 284

<211> 479

<212> DNA

<213> Homo sapiens

<400> 284

```
tctggaagga tcagggatct gagcaaagcc aagtttactt aagctaagcc acttgttcct 60
gggtcaagca gtttggttttc taataagcat cattcctgat cattagagca aagggatgaa 120
tgctcctctt ggaatgatac aggggatctg ccactgggag agtggtgctc agtggttagag 180
tagcagcaat gacagaatga cagcgactct ctgagtcaac ccagtacttt tagtaccctg 240
tcactatgtg aataaaaggca gctagaaaat ggactcaatt ctgcaagcct tcatggcaac 300
agcccatatt aagacttcta gaacaagtta aaaaaaaatc ttccatttcc atccatgcat 360
gggaaaaggg cttaggtata gtttaggatg gatgtgtgta taataataaa atgataagat 420
atgcatagtg ggggaataaa gcctcagagt ccttccagta tggggaatcc attgtatct 479
```

<210> 285

<211> 435

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> 27, 83, 90, 93, 96, 184, 207, 227, 232, 293, 306, 307, 328, 331, 339, 343, 347, 349, 350, 370, 371, 382, 383, 414, 418, 434

<223> n = A,T,C or G

<400> 285

```
tttttttttt tttttttttt tcaatanaaa tgccataatt tattccattg tataaaaaag 60
tcaccccttat gtaacaaaat gtnttcttan aanaanaaat atattatttc aggtcataaa 120
taatcagcaa acatacaact gttggcaact aaaaaaaaac ccaacactgg tattttccat 180
cagngctgaa aacaaacctg cttaaanata tatttacagg gatagtnacg tinctaaaaa 240
caaaaattga ggtatttttg ttcttctagg agtagacaat gacattttgg gangggcaga 300
cccctnnccc aaaaaataaa ataagggnat nttcttcant atngaannnn gggggcgccc 360
cggggaaaaa naaaccttgg gnnngggggt tggcccaagc ccttgaaaaa aaantttntt 420
tccccaaaaa aacng 435
```

<210> 286

<211> 301

<212> DNA

<213> Homo sapiens

<400> 286

```
cctggtttct ggtggcctct atgaatccca tgtagggtgc agaccgtact ccatccctcc 60
ctgtgagcac caggtcaacg gctcccggcc ccatgcacg ggggaggag atacccccaa 120
gtgtagcaag atctgtgagc ctggctacag cccgacctac aaacaggaca agcactacgg 180
atacaattcc tacagcgtct ccaatagcga gaaggacatc atggccgaga tctacaaaaa 240
cgccccctg gagggagctt tctctgtgta ttcggaactc ctgctctaca agtcaggagt 300
g 301
```

<210> 287

<211> 432

<212> DNA

<213> Homo sapiens

<400> 287

```
tccagcttgt tgccagcatg agaaccgcca ttgatgacat tgaacgccgg gactggcagg 60
```

```
<210> 288
<211> 326
<212> DNA
<213> Homo sapiens
```

<400>	288						
tctgggtcaa	gtcaaagtc	tggctcctctt	ctccgcctcc	ttcttcatca	tagtaataaaa	60	
cgttgtcccg	ggtgtcatcc	tctgggggca	gtaagggtc	tttgaccacc	gctctcctcc	120	
gaagaaacag	caagagcagc	agaatcagaa	ttagcaaagc	aagaattcct	ccaagaatcc	180	
ccagaatggc	aggaatttgc	aatcctgctt	cgacaggctg	tgcttctcta	cagacgcgg	240	
cggccccctt	acantcacac	acgctgacct	ctaaggtggt	cacttggtct	ttattctggg	300	
tatccattga	cttgagattg	attttg				326	

```
<210> 289
<211> 451
<212> DNA
<213> Homo sapiens
```

<400>	289						
gtccccggtgt	ggctgtgccg	ttggtcctgt	gcggtcactt	agccaagatg	cctgaggaaa	60	
cccagaccca	agaccaaccg	atggaggagg	aggaggttga	gacgttcgcc	tttcaggcag	120	
aaattgcccc	gttgatgtca	ttgatcatca	atactttcta	ctcgaacaaa	gagatctttc	180	
tgagagagct	catttcaaat	tcatcagatg	catttgacaa	aatccggtat	gaaagcttga	240	
cagatcccag	taaattagac	tctgggaaag	agctgcatat	taaccttata	cgaacaaac	300	
aagatcgaac	tctcactatt	gtggatactg	gaattggaat	gaccaaggct	gacttgatca	360	
ataaccttgg	tactatcgcc	aagtctggga	caaagcggtt	catggaagct	ttgcaggctg	420	
gtgcagatat	ctctatgatt	ggacctcggc	c			451	

```
<210> 290
<211> 494
<212> DNA
<213> Homo sapiens
```

```
<220>  
<221> misc_feature  
<222> 421  
<223> n = A,T,C or G
```

```
<400> 290
tttttttttt tcaaaacagt atattttatt ttacaatagc aaccaactcc ccagtttggt 60
tcaattgtga catctagatg gcttaagatt actttctggt ggtcacccat gctgaacaat 120
```

```

atttttcaat cttccaaaca gcaaagactc aaaagagatt ctgcatttca catcagttca 180
caagttcaag agtcttccat ttatcttagc ttttggaata aattatcttt gaggtagaag 240
gacaatgacg aagccactta attccttggtg tctgcataaa agcagattta ttcacacaa 300
cttcatttat gtgaataaag cagatgatga taaaatgttc tcttattctt gtttaatcag 360
tagtggtagt gatgccagaa acttgtaaat gcacttcaaa ccaattgtgg ctcaagtgtg 420
ngtggttccc caaggctggt accaatgaga ctgggggttg ggaattagtt ggtcatcatc 480
cctcctgctg ccca 494

```

```

<210> 291
<211> 535
<212> DNA
<213> Homo sapiens

```

```

<400> 291
tcgcgtgctt aacatgaaaa caaactttgt gctgtttggt tcattgtatg cattgatgga 60
gtcttgcttc tcatcatggg gtgtctgacc atccaacctg cagtactcat aatttctcca 120
catgcaataa tcttccaaaa tgtccaatac ccttgtcatt tgactgaaga ttagtactcg 180
tgaaccttgt tcttttaact tagggagcag cttgtctaaa accaccattt tgccactggt 240
ggttactaga tgcatactctg ttgtataagg tggaccaggt tctgctccat caaagagata 300
tggatgatta caacattttc tcaactgcat taggatgttc aataacctca ttttgctccat 360
cttgctgctg gagttgagta tatctatata cttcattaat atccgagtat accattccct 420
ttgcattttg ctgaggccca catagatttt tacttccttc tttggaggca aactcttttc 480
aacatcagcc ttaattcgac gaaggaggaa tggacgcaaa accatatgaa gcctc 535

```

```

<210> 292
<211> 376
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> 4, 348
<223> n = A,T,C or G

```

```

<400> 292
taenagcccg tgctgatcga gatcctggtg gaggtgatgg atccttcctt cgtgtgcttg 60
aaaattggag cctgcccctc ggcccataag cccttggttg gaactgagaa gtgtatatgg 120
ggcccaagct actggtgccg gaacacagag acagcagccc agtgcaatgc tgcgagcat 180
tgcaaacgcc atgtgtggaa ctaggaggag gaatattcca tcttggcaga aaccacagca 240
ttgggttttt tctacttggt tgtctggggg aatgaacgca cagatctggt tgactttggt 300
ataaaaaatag ggctccccc cctcccccat ttttgtgtcc tttattgnag cattgctgtc 360
tgcaaggagg ccccta 376

```

```

<210> 293
<211> 320
<212> DNA
<213> Homo sapiens

```

```

<400> 293
tcggctgctt cctgggtctg cgggggatgg tttgcttttg aaatcctcta ggaggctcct 60
cctcgcatgg cctgcagtct ggcagcagcc ccgagttggt tcctcgctga tcgatttctt 120
tcctccaggt agagttttct ttgcttatgt tgaattccat tgccctcttt ctcacacag 180
aagtgatgtt ggaatcgttt cttttgtttg tctgatttat gggtttttta agtataaaca 240
aaagtttttt attagcattc tgaaagaagg aaagtaaaat gtacaagttt aataaaaagg 300

```

ggccttcccc tttagaatag

320

<210> 294

<211> 359

<212> DNA

<213> Homo sapiens

<400> 294

```
ctgtcataaa ctggtctgga gtttctgacg actccttggt caccaaatgc accatttcct 60
gagacttgct ggcctctccg ttgagtccac ttggctttct gtccctccaca gctccattgc 120
cactgttgat cactagcttt ttcttctgcc cacaccttct tcgactgttg actgcaatgc 180
aaactgcaag aatcaaagcc aaggccaaga gggatgcca gatgatcagc cattctggaa 240
tttggggtgt ctttatagga ccagagggtg tgtttgctcc accttcttga ctcccatgtg 300
agtgtccatc tgattcagat ccatgagtgg tatgggaccc cccactgggg tggaatgtg 359
```

<210> 295

<211> 584

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> 558

<223> n = A,T,C or G

<400> 295

```
cctgagttgg gctgactgcc agagacagac ccctctgggt ctcggtgaac cagccaggca 60
tttacctcag tggttggcac ctggaacctg tccagggcc tcacctgact gaggagccgc 120
cgggcagtga agtaattgtc caggtctatg ctcttggggt ggataccata gccatccaag 180
gtattcctca ggttgtggaa ctgggtctga gtataggcag aactgggcc caggatgac 240
tcccggagtg ggggaagctg tgaggtcagg taagtatcca cgtccaccg taccccaatc 300
aaactcagca gaatggtgaa ctggagaagt ccttccgtta agtatttctt cagagaaaagc 360
attgctgaag gaccagaatg tttatgcttt ttggttttta aaatcttcca aaagacaaat 420
caaggccact gctctgccgc tccagccagc aggttacctt cctcagtgtc aaaccccgta 480
ccccaccctg gcagaacaca agggatgagc tccctgacgg cccagagga aagcacaccc 540
tgtggagcca aggccaanga cacactccag accacattca cttt 584
```

<210> 296

<211> 287

<212> DNA

<213> Homo sapiens

<400> 296

```
ccttatcatt cattcttagc tcttaattgt tcattttgag ctgaaatgct gcatttttaat 60
tttaacaaaa acatgtctcc tatcctgggt ttgttagcct tctccacat cttttctaaa 120
caagatttta aagacatgta ggtgtttgtt catctgtaac tctaaaagat cttttttaa 180
ttcagtccta agaaagagga gtgcttgctc cctaagagtg tttaatggca aggcagccct 240
gtctgaagga cacttctgc ctaagggaga gtggtatttg cagacta 287
```

<210> 297

<211> 457

<212> DNA

<213> Homo sapiens

<400> 297
 ccaattgaaa caaacagttc tgagaccggt cttccaccac tgattaagag tgggggtggca 60
 ggtattaggg ataattattca tttagccttc tgagctttct gggcagactt ggtgaccttg 120
 ccagctccag cagccttctt gtccactgct ttgatgacac ccaccgcaac tgtctgtctc 180
 atatcacgaa cagcaaagcg acccaaaggt ggatagtctg agaagctctc aacacacatg 240
 ggcttgccag gaaccatatc aacaatggca gcatcaccag acttcaagaa tttagggcca 300
 tcttccagct ttttaccaga acggcgatca atcttttctc tcagctcagc aaacttgcac 360
 gcaatgtgag ccgtgtggca atccaatata ggggcataga cggcgcttat ttggcctgga 420
 tggttcagga taatcaactg agcagtgaag ccagacc 457

<210> 298
 <211> 469
 <212> DNA
 <213> Homo sapiens

<400> 298
 tctttgactt tccttgtcta cctcctcttg agatctcaaa ttctccaggt tccatgctcc 60
 cagagatctc aatgattcct gattctcctc ttccaggagt ctgaatgtct cttgggtcac 120
 ttccacagac tccagtgggt cttgaatttc cttttctaga ggattcattg ccccttgatt 180
 tatttcttct ggagtccaca gtggtgcttg agtttctgga gatttcagtg tttccagggt 240
 ctcttgctcc gcagacttca gtgattctag gatctctgtt tctaaagatt ttactgcctc 300
 tatgctctct tctttgagtg actttaagaa ctcttgattc tcattttcaa gaggtctagc 360
 tatctcctgg tcaagagact tcagtgggtc tagatccact ttttctgggg gtcttaatgt 420
 catctgatcc tgttccccta gagacctccg tcgctgttga gtctctttt 469

<210> 299
 <211> 165
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 37, 82, 144
 <223> n = A,T,C or G

<400> 299
 tctgtggaga ggatgaggtt gagggaggtg gggatatnctg ctgctctgac cttaggtaga 60
 gtctccaca gaagcatcaa antggactgg cacatatgga ctcccttcac aggccacaat 120
 gatgtgtctc tccttcgggc tggncgggta tgcacagttg gggta 165

<210> 300
 <211> 506
 <212> DNA
 <213> Homo sapiens

<400> 300
 tctgaggaaa gtttgggctt attagtattt gctccagcga acctccaagt tttctccatt 60
 ggggacaacg taactaccag ctcttgggtc cagtgggttcg cctccactca gaagttccca 120
 gtagggtctg tcattattgt tggcacatag gccctgaata cagggtgatat agggcccca 180
 tgagcgctcc tcattgtga aaccaaatat agtatcattc attttctggg ctttctccat 240
 cacactgagg aagacagaac catttagcac agtgacattg gtgaaatatg tttcattgat 300
 tctcacagag taattgacgg agatatatga ttgtgagtca ggaggtgtca cagttatagg 360
 ctcatcagcg gagatgttga agttacctga agcagagacg caagaagagt ctttggtta 420
 atccaagaag gtctttccca tcagggcagg taagacctgg gctgcagcgt ttggattgct 480

gaatgctcct tgagaaatct ccgtaga

506

<210> 301

<211> 304

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> 221, 223, 252, 275, 280

<223> n = A,T,C or G

<400> 301

```
tcctaaggca gagcccccat cacctcaggc ttctcagttc ccttagccgt cttactcaac 60
tgcccccttc ctctccctca gaatttgtgt ttgctgcctc tatcttggtt ttgtgttttt 120
cttctggggg gggctctaga cagtgcctgg cacatagtag gcgctcaata aatacttggt 180
tggtgaatgt ctctctctc tttccactct gggaaaccta ngnttctgcc attctgggtg 240
accctgtatt tntttctggt gccattcca tttgnccagn taatacttcc tcttaaaaaat 300
ctcc 304
```

<210> 302

<211> 492

<212> DNA

<213> Homo sapiens

<400> 302

```
ttttcagtaa gcaacttttc catgctctta atgtattcct ttttagtagg aatccggaag 60
tattagattg aatggaaaag caattgccat ctctgtctag gggtcacaaa ttgaaatggc 120
tcctgtatca catacggagg tcttgtgtat ctgtggcaac agggagtgtc cttattcact 180
ctttattttg tgctgtttta gttgccaacc tcccctccca ataaaaattc acttacacct 240
cctgcctttg tagttctggt attcacttta ctatgtgata gaagtagcat gttgctgcca 300
gaatacaagc attgcttttg gcaaattaaa gtgcatgtca tttcttaata cactagaaag 360
gggaaataaa ttaaagtaca caagtccaag tctaaaaact tagtactttt ccatgcagat 420
ttgtgcacat gtgagagggt gtccagtttg tctagtgtat gttattttaga gagttggacc 480
actattgtgt gt 492
```

<210> 303

<211> 470

<212> DNA

<213> Homo sapiens

<400> 303

```
tctggggcag caggtactcc ctacggcact agtctacagg gggaaggacg ctctgtgctg 60
gcagcgggtg ctacatggc ctgtctgcac tgtaaccaca ggctgggatg tagccaggac 120
ttggtctcct tggaagacag gtctgatgtt tggccaatcc agtccttcag accctgcctg 180
aaacttgtat cttacgtgaa cttaaagaat aaaatgcatt tctaccccgga tctcgccccc 240
aggactggca cgacaggccc acggcagatt agatcttttc ccagtactga tcggtgctg 300
gaattccagg caccacttct gattcgattc cacagtgtat ctgtcctctg agtattttta 360
agaagccatt gtcacccag tcaagtgttc aggagttggc aaccagccag tagggtgtgc 420
cattctccac tccccagccc aggatgcgga tggcatggac ctcggccgcg 470
```

<210> 304

<211> 79

<212> DNA

<213> Homo sapiens

<400> 304

tgtcccattg ttaactcagc ctcaaattctc aactgtcagg ccctacaaag aaaatggaga 60
gcctcttctg gtggatgcg 79

<210> 305

<211> 476

<212> DNA

<213> Homo sapiens

<400> 305

tcactgagcc accctacagc cagaagagat atgaggaaat tgttaaggaa gtcagcactt 60
acattaagaa aattggctac aaccccgaca cagtagcatt tgtgccaatt tctgggttga 120
atggtgacaa catgctggag ccaagtgtta acgtaagtgg ctttcaagac cattgtttaa 180
aagctctggg aatggcgatt tcatgtctac acaaattggc atgcttgtgt ttcagatgcc 240
ttggttcaag ggatggaaag tcaccogtaa ggatggcaat gccagtggaa ccacgctgct 300
tgaggctctg gactgcatcc taccaccaac tcgtccaact gacaagccct tgcgcctgcc 360
tctccaggat gtctacaaaa ttggtggtta gttggctgta aacaaagttg aatttgagtt 420
gatagagtac tgtctgcctt cataggtatt tagtatgctg taaatatttt taggta 476

<210> 306

<211> 404

<212> DNA

<213> Homo sapiens

<400> 306

tctgtctcgg agctcagggc gcagccagca cacacaggag cccacaggac agccacgtct 60
tcacagaaac tacagaagtc aggaccagc cgaggacctc aggaacaagt gccccctgca 120
gacagagaga cgcagtagca acagcttctg aacaactaca taataatgcg gggagaatcc 180
tgaagaccac tgcattccac aagcactgac aaccacttca ggattttatt tcctccactc 240
taacccccag atccatttat gagaagtgtg tgaggatggc aggggcatgg aggggtgaagg 300
gacagcaagg atggtctgag ggccctggaaa caatagaaaa tcttcgtcct ttagcatatc 360
ctggactaga aaacaagagt tggagaagag gggggttgat acta 404

<210> 307

<211> 260

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> 10, 255, 257

<223> n = A,T,C or G

<400> 307

tcctgcctan acatctgtga gggcctcaag ggctgctgcc tcgactttct ccctagctaa 60
gtccacccgt ccagggacac agccagggca ctgctctgtg ctgacttcca ctgcagccaa 120
gggtcaaaaat gaagcatctg cggaggccag gactccttgg catcggacac agtcagggga 180
aaagccaccc tgactctgca ggacagaggg tctaggggtca tttggcagga gaacactggg 240
gtgccaaagg aagcnancat 260

<210> 308

<211> 449

<212> DNA
<213> Homo sapiens

<400> 308

```
tctgtgctcc cgactcctcc atctcaggta ccaccgactg cactgggcgg ggccctctgg 60
ggggaaaggc tccacggggc agggatacat ctcgaggcca gtcctcctct ggaggcagcc 120
caatcaggtc aaagattttg cccaactggt cggttcaga gtttccacag aagagaggct 180
ttcgacgaaa catctctgca aagatacagc caaactcca catgtccaca ggtgttgcat 240
atgtggactg cagaagaact tcgggagctc ggtaccagag tgtaacaacc ttgatcggtt 300
cggctggcaa gcctgggtgg ggtgccttgt ccagatatgt ccttaggtcc tggctctacat 360
gctcaaacac cagggttacc ttgatctccc ggtcagttcg ggatgtggca cagacgtcca 420
tcagccggac aacattggga tgcataaaa 449
```

<210> 309

<211> 411

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> 384

<223> n = A,T,C or G

<400> 309

```
ctgtggaaac ctgggggtgcc gggtaaattg agaactccag cttggatttc ttgccataat 60
caactgagag acgttccatg agcaggagg tgaaccaga accagttccc ccaccaaagc 120
tgtggaaaaac caagaagccc tgaagaccgg tgactggtc agccagcttg cgaattcggg 180
ccaacacaag gtcaatgatc tccttgccaa tgggttagtg ccctcgggca tagttattgg 240
cagcatcttc cttgcctgtg atgagctgct cagggtggaa gagctggcgg taggtgccag 300
tgccaacttc atcaatgact gtgggttcca agtctacaaa cacagcccgg ggcacgtgct 360
tgccagcgcc cgtctcactt gaanaagggt gtttgaagga agtcatctcc t 411
```

<210> 310

<211> 320

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> 250

<223> n = A,T,C or G

<400> 310

```
tcctcgcca gcttgactcg attagtcctc ataaggtaag caaggcagat ggtggctgac 60
cgggaaatgc ctgcctggca gtggacaaac acccttcctc cagcattctt gatggagtct 120
atgaagtcaa tggcctcggt gaaccaggag ctgatgtctg ccttgtggtt gtcctccaca 180
gggatgctct tgtactggta gtgacctca aaatggttgg gacaattggc tgagacgttg 240
atcaaggcan ttatgcccaa ggcattccagc atgtccttgc gggaagcgtg atacgcactg 300
cccagggtaca gaaagggcag 320
```

<210> 311

<211> 539

<212> DNA

<213> Homo sapiens

<400> 311

```

tctggcccat gaagctgaag ttgggagaga tgatgcttcg cctctgcttc acaaactcaa 60
aggcctcgtc cagcttgact cgattagtc tcataaggta agcaaggcag atgggtggctg 120
accgggaaat gcctgcctgg cagtggacaa acacccttcc tccagcattc ttgatggagt 180
ctatgaagtc aatggcctcg ttgaaccagg agctgatgtc tgccttgagg ttgtcctcca 240
cagggatgct cttgtactgg tagtgaccct caaaatgggt gggacaattg gctgagacgt 300
tgatcaaggc agttatgccc aaggcatcca gcatgtcctt gcgggaagcg tgatacgcac 360
tgcccaggta cagaaagggc aggatttcca cggggccacc ctgaaatcca gaaatatcca 420
acattcatca agcttgctca aagccaaggc cagtgcccat acccacaaaa actttctgct 480
ggaaaagtca atttcagata ccgagtgaac tcagttctgt tgctggagga taaataaat 539

```

<210> 312

<211> 475

<212> DNA

<213> Homo sapiens

<400> 312

```

tcaaggatct tcttaaagcc accatgtgag aggattcgga cgagagtctg agctgtatgg 60
cagaccatgt cctgctgttc tagggtcctg actgtgtgta ctctaaagtt gccactctca 120
caggggtcag tgataccac tgaacctggc aggaacagtc ctgcagccag aatctgcaag 180
cagcgctgt atgcaacgtt tagggccaaa ggctgtctgg tggggttggt catcacagca 240
taatggccta gtaggtcaag gatccagggt gtgaggggct caaagccagg aaaacgaatc 300
ctcaagtcct tcagtagtct gatgagaact ttaactgtgg actgagaagc attttcctcg 360
aaccagcggg catgtcggat ggctgctaag gcactctgca atactttgat atccaaatgg 420
agttctggat ccagttttcg aagattgggt ggcactgttg taatgagaat cttca 475

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<210> 313

<211> 456

<212> DNA

<213> Homo sapiens

<400> 313

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tccacttaaa ggggtgctct gccaaactggt ggaatcatcg ccacttccag caccacgcca 60
agcctaacat cttccacaag gatcccgatg tgaacatgct gcacgtgttt gttctgggag 120
aatggcagcc catcgagtag ggcaagaaga agctgaaata cctgccctac aatcaccagc 180
acgaataact cttcctgatt gggccgcccgc tgctcatccc catgtatttc cagtaccaga 240
tcatcatgac catgatcgtc cataagaact ggggtggacct ggcctgggac gtcagctact 300
acatccgggt cttcatcacc tacatccctt tctacggcat cctgggagcc ctccctttcc 360
tcaacttcat caggttcctg gagagccact ggtttggtgt ggtcacacag atgaatcaca 420
tgcgcatgga gattgaccag gaggacctcg gcccgcc 456

```

<210> 314

<211> 477

<212> DNA

<213> Homo sapiens

<400> 314

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tgctggggct tctggaagcc tggatctgga atcattcacc agattattct ggaaaactat 60
gcgtaccctg gtgttcttct gattggcact gactcccaca cccccaatgg tggcgccctt 120
gggggcatct gcattggagt tgggggtgcc gatgctgtgg atgtcatggc tgggatcccc 180
tgggagctga agtgcccca ggtgattggc gtgaagctga cgggctctct ctccggttgg 240
tcctcaccce aagatgtgat cctgaagggt gcaggcatcc tcacggtgaa aggtggcaca 300
ggtgcaatcg tggaaatcca cgggcctgggt gtagactcca tctcctgcac tggcatggcg 360

```

acaatctgca acatgggtgc agaaattggg gccaccactt ccgtgttccc ttacaaccac 420
 aggatgaaga agtatctgag caagaccggc cggaagaca ttgccaatct agctgat 477

<210> 315
 <211> 241
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 35
 <223> n = A,T,C or G

<400> 315
 caggctactgg atgtcaggtc tgcgaaactt cttanatttt gacctcagtc cataaaccac 60
 actatcacct cggccatcat atgtgtctac tgtggggaca actggagtga aaacttcggt 120
 tgctgcaggc ccgtgggaaa atcagtgacc agttcatcag attcatcaga atggtgagac 180
 tcatcagact ggtgagaatc atcagtgtca tctacatcat cagagtcgtt cgagtcaatg 240
 g 241

<210> 316
 <211> 241
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 1, 4, 32, 39, 68, 77, 82, 94, 166, 172, 195, 196
 <223> n = A,T,C or G

<400> 316
 ntntgtgat agtgtggttt atggactgag gncaaaatnt aagaagtttc gcagacctga 60
 catccaancc tgcccgngcg gncgctcgaa aggnccaatt ctgcagatat ccatcacact 120
 ggcgcccgct cgagcatgca tctagagggc ccaattcgcc ctatantgag tnatattaca 180
 attcactggc cgtcnnttta caacgtcgtg actgggaaaa ccctggcggtt acccaactta 240
 a 241

<210> 317
 <211> 241
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 15, 25, 135, 154, 193
 <223> n = A,T,C or G

<400> 317
 aggtaccctg ctcancagcc tgggngcctg ggttgtctcc ttgtccatcc actggtccat 60
 tctgctctgc atttttttgt tcctcttttg gaggttccac tttgggtttg ggctttgaaa 120
 ttatagggct acaantacct cggcogaaac cacnctaagg gcgaattctg cagatatcca 180
 tcacactggc ggncgctcga gcatgcatct agagggccca attcgcccta tagtgagtcg 240
 t 241

<210> 318
 <211> 241
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 3, 5, 10, 11, 24, 28, 31, 34, 40, 42, 47, 53, 74, 80, 96,
 101, 127, 129, 136, 138, 205, 241
 <223> n = A,T,C or G

<400> 318
 cgngnacaan ntacattgat gganggtntg nggntctgan tntttantta cantggagca 60
 ttaatatattt cttnaacgtn cctcaccttc ctgaantaaa nactctgggt tgtagcgctc 120
 tgtgctnana accacntnaa ctttacctcc ctcttttgga ttaatccact gcgcggccac 180
 ctctgccgcg accacgctaa gggcnaattc tgcagatatc catcacactg ggggcgcgctc 240
 n 241

<210> 319
 <211> 241
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 24, 36, 39
 <223> n = A,T,C or G

<400> 319
 caggtactga tccgtgcgtg gaantccagc caccantntt gattcgattc cacagtgatc 60
 ctgtcctctg agtatattta agaagccatt gtcacccag tcagtgttcc aggagtggc 120
 aaccagccag taggggtgct cattctccac tccccagccc aggatgcgga tggcatggcc 180
 accatcatc tctccggtga cgtgttggtta cctcggccgc gaccacgcta agggcgaatt 240
 c 241

<210> 320
 <211> 241
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 27, 215, 216, 217, 220, 222, 235
 <223> n = A,T,C or G

<400> 320
 ggcaggtacc aacagagctt agtaatntct aaaaagaaaa aatgatcttt ttccgacttc 60
 taacaagtgt actatactag cataaatcat tctagtaaaa cagctaaggt atagacattc 120
 taataatttg ggaaaacctg tgattacaag tgaaaactca gaaatgcaaa gatgttggtt 180
 ttttggtttc cagtctgctt tagcttttaa ctctnnnaan cncatgcaca cttgnaactc 240
 t 241

<210> 321
 <211> 241

<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> 2, 25, 26, 228
<223> n = A,T,C or G

<400> 321
angtaccaac agagcttagt aattnnntaaa aagaaaaaat gatctttttc cgacttctaa 60
acaagtgact atactagcat aaatcattct agtaaaacag ctaagggtata gacattctaa 120
taatttggga aaacctatga ttacaagtga aaactcagaa atgcaaagat gttgggtttt 180
tgtttctcag tctgcttttag cttttaactc tggaagcgca tgcacacntg aactctgctc 240
a 241

<210> 322
<211> 241
<212> DNA
<213> Homo sapiens

<400> 322
ggtaccaaca gagcttagta atttctaaaa agaaaaaatg atctttttcc gacttctaaa 60
caagtgacta tactagcata aatcatttct ctagtaaaac agctaaggta tagacattct 120
aataatttgg gaaaacctat gattacaagt aaaaactcag aaatgcaaag atgttggttt 180
tttgtttctc agtctgcttt agcttttaac tctggaagcg catgcacact gaactctgct 240
c 241

<210> 323
<211> 241
<212> DNA
<213> Homo sapiens

<400> 323
cgagggtactg tcgtatcctc agccttggtc tatttcttta ttttagcttt acagagatta 60
ggtctcaagt tatgagaatc tccatggctt tcaggggcta aacttttctg ccattctttt 120
gctcttaccg ggctcagaag gacatgtcag gtgggatacg tgtttctctt tcagagctga 180
agaaagggtc tgagctgcgg aatcagtaga gaaagccttg gtctcagtga ctccttggct 240
t 241

<210> 324
<211> 241
<212> DNA
<213> Homo sapiens

<400> 324
agggtactgtc gtatcctcag ccttggttcta tttctttatt ttagctttac agagattagg 60
tctcaagtta tgagaatctc catggctttc aggggctaaa cttttctgcc attcttttgc 120
tcttaccggg ctcaagaaga catgtcaggt gggatacgtg tttctctttc agagctgaag 180
aaaggggtctg agctgcggaa tcagtagaga aagccttggc ctcaagtgtc ccttggcttt 240
c 241

<210> 325
<211> 241
<212> DNA

<400> 325

<210> 326

$\langle 211 \rangle$ 241

<212> DNA

<213> Homo sapiens

<400> 326

<210> 327

<211> 241

<212> DNA

<213> Homo sapiens

<400> 327

ggtaccagac	caagtgaatg	cgacagggaa	ttatttcctg	tgttgataat	tcatgaagta	60
gaacagtata	atcaaaatca	attgtatcat	cattagtttt	ccactgcctc	acactagtga	120
gctgtgccaa	gtagtagtgt	gacacctgtg	ttgtcatttc	ccacatcacg	taagagcttc	180
caaggaaaag	caaatcccag	atgagtctca	gagagggatc	aatatgtcca	tgattatcag	240
g						241

<210> 328

<211> 241

<212> DNA

<213> Homo sapiens

 $\langle 220 \rangle$

<221> misc feature

 $\langle 222 \rangle$ 6, $\bar{19}$, 66, 232, 240

<223> n = A, T, C or G

<400> 328

ggtacnagac	caaatgaang	ccacagggaa	ttatttcctg	tgttgataat	tcatgaagta	60
gaacantata	atcaaaatca	attgtatcat	cattagtttt	ccactgcctc	acactagtga	120
gctgtgccaa	gtagtagtgt	gacacctgtg	ttgtcatttc	ccacatcacg	taagagcttc	180
caaggaaagc	caaatcccag	atgagtctca	gagagggatc	aatatgtcca	tnatcatcan	240
q						241

<210> 329

<211> 241

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> 33, 61, 220, 228, 229, 240, 241

<223> n = A,T,C or G

<400> 329

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ttcaggtcga gttggctgca gatttgtggt gcnttctgag ccgtctgtcc tgcgccaaaa 60
ngcttcaaag tattattaaa aacatatgga tcccatgaa gccctactac accaaagttt 120
accaggagat ttggatagga atggggctga tgggcttcat cgtttataaa atccgggctg 180
ctgataagaa gtaaggcttt gaaagcttca gcgcctgctn ctggtcanna ctaaccatan 240
n 241
```

<210> 330

<211> 241

<212> DNA

<213> Homo sapiens

<400> 330

```
ttttgtgcag atttgtggtg cgttctgagc cgtctgtcct gcgccaaagat gtttcaaagt 60
attattaaaa acatatggat ccccatgaag ccctactaca ccaaagttaa ccaggagatt 120
tggataggaa tggggctgat gggcttcacg gtttataaaa tccgggctgc tgataaaaga 180
agtaaggctt tgaaagcttc agcgcctgct cctggctcatc actaaccaga tttacttgga 240
g 241
```

<210> 331

<211> 241

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> 1, 9, 41, 60, 61, 119, 124, 132, 139, 141, 153, 168

<223> n = A,T,C or G

<400> 331

```
nttttaggna ctttgggctc cagacttcac tggctcttagg nattgaaacc atcacctggn 60
ntgcattcct catgactgag gttaacttaa aacaaaaatg gtaggaaagc tttcctatnc 120
ttcnggtaag anacaaatnt nctttaaaaa aangtggaag gcatgacnta cgtgagaact 180
gcacaaactg gccactgaca aaaatgaccc ccatttgtgt gacttcattg agacacatta 240
c 241
```

<210> 332

<211> 241

<212> DNA

<213> Homo sapiens

<400> 332

```
tgtgaggaga gggaacatgc tgagaaactg atgaagctgc agaaccaacg aggtggccga 60
atcttccttc aggatatcaa gaaaccagac tgtgatgact gggagagcgg gctgaatgca 120
atggagtgtg cattacattt ggaaaaaaat gtgaatcagt cactactgga actgcacaaa 180
ctggccactg acaaaaatga ccccatcttg tgtgacttca ttgagacaca ttacctgaat 240
g 241
```

<210> 333
 <211> 241
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 44, 52, 60, 98, 104, 108, 124, 126, 190, 198, 206, 214
 <223> n = A,T,C or G

<400> 333
 caggtacaag cttttttttt tttttttttt tttttttttt ttgnaaatac tntttattgn 60
 aaatattcta tcctaaattc catatagcca attaatnttt acanaatntt ttgttaattt 120
 ttgngngtat aaattttaca aaaataaagg gtatgtttgt tgcacacaac ttacaaataa 180
 taataaaactn tttattgnaa atattnttta ttgnaaatat tctttatcct aaattccata 240
 t 241

<210> 334
 <211> 241
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 10, 16, 22, 24, 49, 158, 159, 237
 <223> n = A,T,C or G

<400> 334
 tacctgctgn aggggntgaa gncntctctg ctgccccagg catctgcanc ccctgctgct 60
 ggttctgccc ctgctgcagc agaggagaag aaagatgaga agaaggagga gtctgaagag 120
 tcagatgatg acatgggatt tggccttttt gattaaannc ctgctcccct gcaaataaag 180
 cctttttaca caaaaaaaaa aaaaaaaaaa aaaaaaaaaa aagcttgtag ctgcccnggc 240
 g 241

<210> 335
 <211> 241
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 39
 <223> n = A,T,C or G

<400> 335
 ctatgtgctg ggatgactat ggagacccaa atgtctcana atgtatgtcc cagaaacctg 60
 tggctgcttc aaccattgac agttttgctg ctgctggctt ctgcagacag tcaagctgca 120
 gtccccccaa aggctgtgct gaaacttgag ccccggtgga tcaacgtgct ccaggaggac 180
 tctgtgactc tgacatgcca gggggctcgc agccctgaga gcgactccat tcagtgggtc 240
 c 241

<210> 336
 <211> 241
 <212> DNA

<213> Homo sapiens

<400> 336

```
taccaaccta tgcagccaag caacctcagc agttcccatc aaggccacct ccaccacaac 60
cgaaagtatc atctcagga aacttaattc ctgcccgctc tgctcctgca cctcctttat 120
atagttccct cacttgattt ttttaacctt ctttttgcaa atgtcttcag ggaactgagc 180
taataactttt ttttttcttg atgttttctt gaaaagcctt tctgttgcaa ctatgaatga 240
a 241
```

<210> 337

<211> 241

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> 47, 56, 69, 228

<223> n = A,T,C or G

<400> 337

```
ggtactgtat gtagctgcac tacaacagat tcttaccgtc tccacanagg tcatanattg 60
taaatggtna atactgactt tttttttatt cccttgactc aagacagcta acttcatttt 120
cagaactgtt ttaaaccttt gtgtgctggg ttataaaaata atgtgtgtaa tccttggttg 180
tttcctgata ccagactgtt tcccgtgggt ggtagaata tattttgntt tgatgcttat 240
a 241
```

<210> 338

<211> 241

<212> DNA

<213> Homo sapiens

<400> 338

```
aggtagcagg gtgcgctgag ccgagtttac acggaaggga taaagcccat ttagttttctt 60
ctcaaatgga gttttccact ttcttttgaa gtagacagca ttcaccagga tcatcctggg 120
atccccatct acagaacctt caggtaacaa gtttgggatt ttgcctttgg tttgagtctt 180
gaccaggaa ttaatctttt ttctagcttc ttctgcacat tctaggaagt ctactgcctg 240
g 241
```

<210> 339

<211> 241

<212> DNA

<213> Homo sapiens

<400> 339

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taccgacggc tcttgaggag agagagtga gggacacggg aagaatcaaa gtcgagcatg 60
aaagtgtctg caactccaaa gatcaaggcc ataaccagg agaccatcaa cggaagatta 120
gttctttgtc aagtgaatga aatccaaaag cacgcatgag accaatgaaa gtttccgcct 180
gttgtaaaat ctattttccc ccaaggaaaag tccttgacac gacaccagtg agtgagttct 240
a 241
```

<210> 340

<211> 241

<212> DNA

<213> Homo sapiens

```
<400> 344
ggtacaaaat tgttggaatt tagctaatag aaaaacatag taaatattta caaaaacggt 60
gataacatta ctcaagtcac acacatatga caatgtagac aggtcttaac aaagttttaca 120
aattgaaatt atggagattt cccaaaatga atctaatagc tcattgctga gcatgtggtat 180
caatataaca tttaaagatct tgqatcaaat gttgtcccg agtcttctgc aatccagtc 240
```

t 241

<210> 345
<211> 241
<212> DNA
<213> Homo sapiens

<400> 345
ggtagcgaagc tgagcgcacg gggggttgccc cagcgtggag cctggacctc aaacttcacg 60
gaaaatgctc tctctctttg acaggcttcc agctgtctcc taatttcctg gatgaactct 120
ccccggcgat ttaactgacg ctgaaaagtg gtgagaggac tgaggaagac aaccagggtca 180
gcgttagatc ggccctctgag ggtggtgccc ttgcctgagg agccaccctt taccaccttg 240
g 241

<210> 346
<211> 241
<212> DNA
<213> Homo sapiens

<400> 346
caggtaccac tgagcctgag atgggggatga gggcagagag aggggagccc cctcttccac 60
tcagttgttc ctactcagac tgttgccactc taaacctagg gaggttgaag aatgagaccc 120
ttaggtttta acacgaatcc tgacaccacc atctataggg tcccaacttg gttattgtag 180
gcaaccttcc ctctctcctt ggtgaagaac atcccaagcc agaaagaagt taactacagt 240
g 241

<210> 347
<211> 241
<212> DNA
<213> Homo sapiens

<400> 347
aggtacatct aaaggcatga agcactcaat tgggcaatta acattagtgt ttgttctctg 60
atggtatctc tgagaatact ggttgttagga ctggccagta gtgccttcgg gactgggttc 120
acccccaggt ctgcggcagt tgtcacagcg ccagccccgc tggcctccaa agcatgtgca 180
ggagcaaatg gcaccgagat attccttctg ccactgttct cctacgtggt atgtcttccc 240
a 241

<210> 348
<211> 241
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> 2, 18, 29, 35, 56, 57, 64, 76, 77, 85, 102, 103, 104, 189, 232
<223> n = A,T,C or G

<400> 348
angtacttgg caagattnga tgctcttgng ctcantgaca tcattcataa cttgtngtg 60
tgancagagg aggagnncat catcntgtcc tcattcgtca gnnncctctc ctctctgaat 120
ctcaaacaag ttgataatgg agaaaaattt gaattctcag gattgaggct ggactgggtc 180
cgccctacang catacactag cgtggcctaag gccctctgc accctgcatg anaaccctga 240

c 241

<210> 349
 <211> 241
 <212> DNA
 <213> Homo sapiens

<400> 349
 gcaggtagcca tttgtctgac ctctgtaaaa aatgtgatcc tacagaagtg gagctggata 60
 atcagatagt tactgctacc cagagcaata tctgtgatga agacagtgct acagagacct 120
 gctacactta tgacagaaac aagtgtctaca cagctgtggt cccactcgta tatgggtggtg 180
 agaccaaaat ggtggaaaca gccttaaccc cagatgcctg ctatcctgac taatttaagt 240
 c 241

<210> 350
 <211> 241
 <212> DNA
 <213> Homo sapiens

<400> 350
 aggtactgtg gatattttaa atatcacagt aacaagatca tgcttggtcc tacagtattg 60
 cgggccagac acttaagtga aagcagaagt gtttgggtga ctttcctact taaaattttg 120
 gtcatatcat ttcaaaacat ttgcatcttg gttggctgca tatgctttcc tattgatccc 180
 aaaccaaadc ttagaatcac ttcattttaa atactgagcg gtattgaata cttcgaagca 240
 g 241

<210> 351
 <211> 241
 <212> DNA
 <213> Homo sapiens

<400> 351
 tacagaaatc atttgagacc gttttgagac agaagtagag gctctgtcaa gtcaatactg 60
 cattgcagct tgggtccactg aagaagccac gcctgagata caaaagatgc actacacttg 120
 acccgcttta tgttcgcttc ctctccctt ctctctcatc aactttatta ggttaaaaca 180
 ccacatacag gctttctcca aatgactccc tatgtctggg gtttggttag aattttatgc 240
 c 241

<210> 352
 <211> 241
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 10, 28, 29, 49, 54, 59, 72, 127, 148, 150, 160, 166, 182
 <223> n = A,T,C or G

<400> 352
 gtaccctgtn gagctgcacc aagattannt ggggccatca tgactgcanc cacnacgang 60
 acgcaggcgt gnagtgcac gtctgacctg gaaaccttt cacttctctg ctcccagggt 120
 gtcctcnggc tcatatgtgg gaaggcanan gatctctgan gagttncctg gggacaactg 180
 ancagcctct ggagaggggc cattaataaa gctcaacatc attggcaaaa aaaaaaaaaa 240
 a 241

<210> 353
 <211> 241
 <212> DNA
 <213> Homo sapiens

<400> 353
 aggtaccagt gcattaatTTT gggcaaggaa agtgtcataa tttgatactg tatctgtttt 60
 ccttcaaagt atagagcttt tggggaagga aagtattgaa ctgggggttg gtctggccta 120
 ctgggctgac attaaactaca attatgggaa atgcaaaagt tgtttggata tggtagtggtg 180
 tggttctctt ttggaatTTT tttcaggtga ttttaataata atttaaaact actataaaaa 240
 c 241

<210> 354
 <211> 241
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 1
 <223> n = A,T,C or G

<400> 354
 ngcaggtccg ggcaggtacc aagattcatt ctcacaaaa actagaaaca gaagggcaaa 60
 ttccagtttc cttctgggat tgaatacttt caagtaaggt cttcgacaaa caatcagggg 120
 gccaatTAAT ccaactgtaga ggtccttaac ttgatccaca gttgaataat aagcccatgg 180
 aatacaagca gaatcctctg ttccagctcc agatctttct gggattttcc atacgtaagt 240
 g 241

<210> 355
 <211> 241
 <212> DNA
 <213> Homo sapiens

<400> 355
 ggtaccacc ctaaatttga actcttatca agaggctgat gaatctgacc atcaaatagg 60
 ataggatgga cttttttttg agttcattgt ataaacaaat tttctgattt ggacttaatt 120
 cccaaaggat taggtctact cctgctcatt cactctttca aagctctgtc cactctaact 180
 tttctccagt gtcataagata gggaattgct cactgcgtgc ctagtctttc ttcacttacc 240
 t 241

<210> 356
 <211> 241
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 27
 <223> n = A,T,C or G

<400> 356
 aggtactgta attgagcatc cggaatntgg agaagtaatt tagctacagg gtgaccaacg 60


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<210> 357
<211> 241
<212> DNA
<213> Homo sapiens
```

```
<210> 358
<211> 241
<212> DNA
<213> Homo sapiens
```

<400>	358						
aggtacgggg	agtgggggtg	aagcntgttc	tctacatagg	caacacagcc	gcctaantca	60	
caaagtcagt	ggtcggccgc	ttcgaccaac	atgtggtgag	cattcaacgg	gcgcatgaag	120	
tctgggtgct	gtgctcgagt	ctctgaatat	tttgatagga	agcgacaaga	aaattcaaac	180	
tgctctttgc	tgactactgg	aaagtgaaaa	gatgctcaag	tttaccattc	aaagaaacca	240	
+						241	

```
<210> 359
<211> 241
<212> DNA
<213> Homo sapiens
```

```

<400> 359
gaggtacaca aaaggaatac cttctgagag ccagggagtg aggaaagggg aaggagactt 60
gacgtcaagg gtgcttttga ggaacatgac gggccagcca gcctgcccca actttgaggc 120
cctgctgggc tcttgtgact ataaatatac tgtctatttc taatgcaatc cgtcttttct 180
gaaagatcct gttatctttt actattgaga catgctttca tttttgtggt cctgtttcca 240
a                                                    241

```

```
<210> 360
<211> 241
<212> DNA
<213> Homo sapiens
```

```
<220>  
<221> misc_feature  
<222> 1
```

<223> n = A,T,C or G

<400> 360

```
ngtactctat actaattctg cctttttata cttaattcta aatttctccc ctctaattta 60
caacaaattt tgtgattttt ataagaatct atgcctcccc aattctcaga ttcttctctt 120
ttctccttta tttctttgct taaattcagt ataagctttc ttgggtattt aggccttcag 180
cacattctta ttcctaaaca ccagcagttc ttcagagacc taaaatccag tataggaata 240
a 241
```

<210> 361

<211> 241

<212> DNA

<213> Homo sapiens

<400> 361

```
aggtactctc cgtgccccga cactgaacat tatccagcca gatctgccc gtgccagctc 60
ccactttgta cttttcttac tatcctgtct agaatcatgt cttatgattt taacagatat 120
agaaccactc ctagaaaatg ttctttcact ttctcgtttc ctttttaatc tatcatcctg 180
actactgaac ttaaaatctt tttcttcctt tttttgtttc tcttttcttt tatcctgttc 240
a 241
```

<210> 362

<211> 241

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> 17, 23

<223> n = A,T,C or G

<400> 362

```
aggtactttt atacctngct tangtcagtg acagatttac caatgacaac acaattttta 60
aattccaaca catatattac tttgtcctat gaagggcaaa aagtcaatat attttaaatt 120
ttaaaaacag aatggatata atgacctttt tacacatcag tgatatttaa aagacttaaa 180
gagacaatac tatggttgag aacttggtt cctattccag ccctaattaa agaaaaaata 240
g 241
```

<210> 363

<211> 241

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> 4

<223> n = A,T,C or G

<400> 363

```
ttangtacta aaaacaaaat cctaattctg ttttaaagag ctgggagatg ttaatcatat 60
gtcagttttt tccacgttat aatttcctaa atgcaaaactt ttcaatcagg gcagttcaaa 120
ttcattacat cacagtaaat aacagtagcc aactttgatt ttatgcttat aggaaaaaaa 180
atcctgtaga tataaaaaaca gcaaattttg acaataaaaa ctcaaaccat tcatccctaa 240
a 241
```

<210> 364
 <211> 241
 <212> DNA
 <213> Homo sapiens

<400> 364
 ggtacaagca gttagtcctg aaggcccctg ataagaatgt catctttctcc ccaactgagca 60
 tctccaccgc cttggccttc ctgtctctgg gggcccataa taccaccctg acagagattc 120
 tcaaaggcct caagttcaac ctcacggaga cttctgaggc agaaattcac cagagcttcc 180
 agcacctcct gcgcaccctc aatcagtcca gcgatgagct gcagctgagt atgggaaatg 240
 c 241

<210> 365
 <211> 241
 <212> DNA
 <213> Homo sapiens

<400> 365
 cgaggtactg agattacagg catgagccac cacgcccggc caaaaacatt taaaaaatga 60
 ctgtccctgc tcaaatactg cagtaggaaa tgtaatttga catatatcac ttccagaaaa 120
 aaactttaaa tctttctata aaatgaattt gatacatcat cagcatgaag tgaagttaaa 180
 atctcttaca aagtaaattc aggtatatca acaatgagat ccaaaagtat cggttcaaga 240
 t 241

<210> 366
 <211> 241
 <212> DNA
 <213> Homo sapiens

<400> 366
 ggcaggtaca catcaaacac ttcattgcct aaatgcaggg acatgcttcc atctgaccac 60
 ttgactatcc gagcattgct ttctttaatt tcatttcctt cttcatctcg gcgtatcctc 120
 catcttatag tattttctac ctttaatttt aacctggttc taccttcttc atccagcatt 180
 tcttcatctt caaattcatt ttcataatac tgggctctac acttgagaaa gttgggcagt 240
 t 241

<210> 367
 <211> 241
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 25
 <223> n = A,T,C or G

<400> 367
 gcaggtacaa ataattcctg ttgtnacatt tagtggacgc gattatctgt atacctcaaa 60
 ttttaattta agaaagtatc acttaaagag catctcattt tctatagatt gaggcttaat 120
 tactgaaaag tgactcaacc aaaaagcaca taacctttta aaggagctac acctaccgca 180
 gaaagtcaga tgccctgtaa ataactttgg tctttcaaaa tagtggcaat gcttaagata 240
 c 241

<210> 368
 <211> 241
 <212> DNA
 <213> Homo sapiens

<400> 368
 tttgtacatt gttaatatgtg accctcggag gaaatggatt tctcttctat taaaaactct 60
 atggtatata agcattacat aataatgcta ctttaaccacc ttttgtctca agaattatca 120
 ccaaagtttt ctggaaataa gtccacataa gaattaaata tttaaaagggt gaaatgttcc 180
 ttattttaac tttagcaaga tcttttcttt ttcattaaga aacactttaa taattttaaa 240
 g 241

<210> 369
 <211> 241
 <212> DNA
 <213> Homo sapiens

<400> 369
 gcaggtaactt tattcttatt tcttatecta tattctgtgt tacagaaaaa ctactaccat 60
 aaacaaaaca ccaaccagcc acagcagttg tgtcaagcat gacaattggt ctagtcttca 120
 cattttatta gtaagtctat caagtaagag atgaagggtc tagaaaacta gacacaaagc 180
 aaccagggtc caaatcacca aggtagatct gtgcttagct aaagggaac acccgaagat 240
 t 241

<210> 370
 <211> 241
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 1
 <223> n = A,T,C or G

<400> 370
 ngttcacagt gcccctcggg cctcgccatg aggtctcttc tgctcgtccc ggtcctgggtg 60
 gtggttctgt cgatcgtctt ggaaggccca gcccagccc aggggacccc agacgtctcc 120
 agtgcccttg ataagctgaa ggagtttgga aacacactgg aggacaaggc tcgggaactc 180
 atcagccgca tcaaacagag tgaactttct gccaaagatgc gggagtgggt ttcagaagac 240
 a 241

<210> 371
 <211> 241
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 227
 <223> n = A,T,C or G

<400> 371
 ggcaggcat cttgagcctt gcacatgata ctcagattcc tcacccttgc ttaggagtaa 60
 aacaatatac tttacagggt gataataatc tccatagtta tttgaagtgg cttgaaaaag 120

gcaagattga cttttatgac attggataaa atctacaaat cagccctcga gttattcaat 180
 gataactgac aaactaaatt atttccctag aaaggaagat gaaaggnagt ggagtgtggt 240
 t 241

<210> 372
 <211> 241
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 26, 27, 59
 <223> n = A,T,C or G

<400> 372
 aggtacagca aagcgaccct tggtnnata gatcagacgg aaattctctc ccgtcttgnc 60
 aatgctgatg acatccatga atccagcagg gtaggttata tcagttcgga ccttgccatc 120
 gattttaatg aaccgctgca tgcaaatctt ctttacttca tctcctgtca gggcatactt 180
 aagtctgttc ctcaggaaaa tgatgagggg gagacactct ctcaacttgt ggggaccggt 240
 g 241

<210> 373
 <211> 241
 <212> DNA
 <213> Homo sapiens

<400> 373
 tactgaaaca gaaaaaatgt attcccacaa aagctgttac acagcggttt cccgtcccca 60
 gaagcagtag aaaatcttag cattccaatg gaaggcatgt atttgtaaaa tattctaaaa 120
 tcagctctat agtttccttg tcctctttga taagggatca gacagagggt gtgtccccct 180
 tcagcagcta cccttcttga caaactggtc tccaataata cctttcagaa acttacaaga 240
 c 241

<210> 374
 <211> 241
 <212> DNA
 <213> Homo sapiens

<400> 374
 caggtactaa aacttacaat aaatatcaga gaagccgtta gtttttacag catcgtctgc 60
 ttaaaagcta agttgaccag gtgcataatt tcccatcagt ctgtccttgt agtaggcagg 120
 gcaatttctg ttttcatgat cggaatactc aaatatatcc aaacatcttt ttaaaacttt 180
 gatttatagc tctagaaaag ttatgttttt taatagtcac tctactctaa tcaggcctag 240
 c 241

<210> 375
 <211> 241
 <212> DNA
 <213> Homo sapiens

<400> 375
 aggtacaaag gaccagtatc cctacctgaa gtctgtgtgt gagatggcag agaacggtgt 60
 gaagaccatc acctccgtgg ccatgaccag tgctctgccc atcatccaga agctagagcc 120
 gcaaattgca gttgccaata cctatgcctg taaggggcta gacaggattg aggagagact 180

gcctattctg aatcagccat caactcagat tgttgccaat gccaaaggcg ctgtgactgg 240
g 241

<210> 376
<211> 241
<212> DNA
<213> Homo sapiens

<400> 376
ggtacatttt actttccttc tttcagaatg ctaataaaaa acttttgttt atacttaaaa 60
aaaccataaa tcagacaaac aaaagaaacg attccaacat cacttctgtg atgagaaaag 120
aggcaatgga attcaacata agcaaagaaa actctacctg gaggaagaa atcgatcagc 180
gaagaaacaa ctcggggctg ctgccagact gcaggccatg cgaggaggag cctcctagag 240
g 241

<210> 377
<211> 241
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> 234
<223> n = A,T,C or G

<400> 377
tcctttctgt ccagggtgatt cacagactag acctttctta tcctcctcct agagttttga 60
cttgggactc tagtggttaag atgatgagcc cgtgcatcag gtccttctgc actttgggtg 120
aagtctccca gggtaggttt cctatttgaa acagtggaat catgtttcca gtgataaagt 180
ttaatgacct catccttttt tttttttttc tcacttgcca tttgtgtgtc ttanatgggt 240
t 241

<210> 378
<211> 241
<212> DNA
<213> Homo sapiens

<400> 378
aggtcagcga tcaggtcctt tatgggcagc tgctgggcag cccacaagc ccagggccag 60
ggcactatct ccgctgcgac tccactcagc ccctcttggc gggcctcacc ccagcccca 120
agtcctatga gaacctctgg ttccaggcca gcccttggg gaccctggta accccagccc 180
caagccagga ggacgactgt gtctttgggc cactgctcaa cttccccctc ctgcagggga 240
t 241

<210> 379
<211> 241
<212> DNA
<213> Homo sapiens

<400> 379
tacggagcaa tcgaagaggc atatccacac ttgggggtggc tatagggtctg gaaaatgctg 60
aagatgactg ctttcaactga ggtcaaggat tgtaatatgt ccagctttgt aaagccatta 120
aagcagaagt ttcttcagtgt atcttctctc taagaaacac catcacctcc atgtgcctta 180
cagaggcccc ctgcgttctg ctgcattgct tttgcgcaat cccttgatga tgaagatggg 240

c 241

<210> 380
 <211> 241
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 24, 25, 26, 34, 36, 56, 113, 129, 137, 184, 185, 208, 210, 237, 240
 <223> n = A,T,C or G

<400> 380
 acgtacacgc agaccgacat gggnnnttca ggcntnagat caaactcaaa acctgnaatg 60
 atatccactc tctttttctt aagctcaggg aaatattcca agtagaagtc canaaagtca 120
 tctggctaana tgcttcngaa tttgaattca tgcacatagg ccttgaaaaa actgtcaaac 180
 tgannctgat caccaccaa gtgggcntn tatgacacaa agcagaaacc tttctctan 240
 g 241

<210> 381
 <211> 241
 <212> DNA
 <213> Homo sapiens

<400> 381
 aggtacaact taatggatta gcttttgggt ttaactgaat atatgaagaa attgggtctg 60
 tctaaagaga gggatattca tatggctttt agttcacttg tttgtatttc atcttgattt 120
 ttttcttttg aaaataaagc attctatttg gttcagattt ctcagatttg aaaaaggctc 180
 tatctcagat gtagtaaatt atttcctttc agtttgtgaa agcaggattt gactctgaaa 240
 g 241

<210> 382
 <211> 241
 <212> DNA
 <213> Homo sapiens

<400> 382
 gtactgctat aatcaatagc tctgatagac aggtttatcc actatattga ccctacctct 60
 aaaaggattg tcataattta tatgctttat gtttacacct atgatacagt tgccttggaa 120
 cacaaaattt ttcattgtaa ttaaaaaaag aagagttgtg cagacagaag aaatcaaatac 180
 taagaaaatac acaggagtag ataaatactc tagaattcat atacccttgg aagatggggt 240
 t 241

<210> 383
 <211> 241
 <212> DNA
 <213> Homo sapiens

<400> 383
 ggcagggtaca aagtcttctc tttgcttttt ataattttta agcaaataac acattttaact 60
 gtattttaagt ctgtgcaaat aatccttcag aagaaatata caagattctg tttgcagagg 120
 tcattttgtc tctcaaagat gattaaatga gtttgtcttc agataaagtg ctctgtcca 180
 gcagaactca aaaggccttc aagctgttca gtaagtgtag ttcagataag actccgtcat 240

a 241

<210> 384
 <211> 241
 <212> DNA
 <213> Homo sapiens

<400> 384
 ggtacacaaa atacacttgc aagcttgctt acagagacct gttaaacaaa gaacagacag 60
 attctataaa atcagttata tcaacatata aaggagtgtg attttcagtt tgttttttta 120
 agtaaataatg accaaactga ctaaataaga aggcaaaaca aaaaattatg cttccttgac 180
 aaggcctttg gagtaaacia aatgctttta ggctcctggt gaatgggggt gcaaggatga 240
 a 241

<210> 385
 <211> 241
 <212> DNA
 <213> Homo sapiens

<400> 385
 ggcaggtcta caatggctct gtcccttctg tggaatcggt acaccaagag gtctcagtc 60
 tgggtccctga cccacagtg agctgtttag atgaccttc acatcttct gatcaactgg 120
 aagacactcc aatcctcagt gaagactctc tggagccct caactctctg gcaccaggta 180
 ggtttggagg ctatgtccct ttaacttatc catgcagagt agccaaactt tacctgaaag 240
 a 241

<210> 386
 <211> 241
 <212> DNA
 <213> Homo sapiens

<400> 386
 aggtaccttt ttcctctcca aaggaacagt ttctaaagtt ttctgggggg aaaaaaaact 60
 tacatcaaatt ttaaaccata tggtaaactg catattagtt gtgttacacc aaaaaattgc 120
 ctacagctgat ctacacaagt ttcaaagtca ttaatgcttg atataaattt actcaacatt 180
 aaattatctt aaattattaa ttaaaaaaaaa aacttttctaa gggaaaaata aacaaatgta 240
 g 241

<210> 387
 <211> 241
 <212> DNA
 <213> Homo sapiens

<400> 387
 accccaactgg ccgctgtgga gtatctccac tctcccctcg tgagggccgc tcccaccgac 60
 cagtcgaact ttcgtaaagt gagttaatgt gtttccactc cctttttccc ctttctggcc 120
 ttttggcca gaatttcttg gccttcgggc atatcctggg agtcctcgac ttccaggaaa 180
 gccaatgct ccccgatcac ctttaagacc cggaggacct attggacctg gaaatcctcg 240
 t 241

<210> 388
 <211> 241
 <212> DNA
 <213> Homo sapiens


```

<400> 388
tttgtagctct tgtccacagc agagacattg agtataccat tggcatcaat gtcaaaagtg 60
acttcaatct gaggaacacc tcgggggtgca ggaggtatgc ctgtgagttc aaacttgcca 120
agcaggttgt taccctttgt catggcacgc tcgccttcat aaacctgaat aagtacacca 180
ggctggttgt cagaataggt agtgaaggct tgtgtctgct tggtaggaat ggtggtatta 240
c                                                                241

```

```

<210> 389
<211> 241
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> 6, 28, 38, 43
<223> n = A,T,C or G

```

```

<400> 389
tacctntgtt agtgagcacc ttgtcttntg tgcttatntc ttnaagataa atacatggaa 60
ggatgtgaaa atcggaacac caactatgtg tctcactgca tctaagttaa gcagccacag 120
ctgtgagagt tttcaaagca gaaagatgct gatgtgacct ctggaattca gacatactga 180
gctatgggtc agaagtgttt tacttaaaaa gcaaacaatc cccaggaaat actgaatagg 240
a                                                                241

```

```

<210> 390
<211> 241
<212> DNA
<213> Homo sapiens

```

```

<400> 390
gcaggtacat ccacatgttc ctccaaatga cgtttggggt cctgcttgcc aacattcttt 60
attgccagct gttcaggtgt catcttatct tcttcttcta cagccttatt gtaattcttg 120
gctaattcca acatctcttt taccactgat tcattgcgtt tacaatgttc actgtagtcc 180
tgaagtgtca aaccttccat ccaactcttc ttatgcaaat ttagcaacat cttctgttcc 240
a                                                                241

```

```

<210> 391
<211> 241
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> 2, 10, 14, 22, 23, 25, 40, 50, 57, 59, 65, 71, 72, 73, 76,
77, 78, 82, 83, 84, 95, 98, 100, 101, 102, 107, 148, 152,
155, 158, 163, 169, 170, 172, 180, 182, 192, 193, 198, 200,
202, 203, 206, 207, 208, 213, 214, 218, 220, 224, 225
<223> n = A,T,C or G

```

```

<221> misc_feature
<222> 235, 236
<223> n = A,T,C or G

```

<400> 391
 cnggcacaaan cttntgtttt tnntnttttt tttttttttt tctttatttn tttttantnt 60
 taaanaaaaa nnntannnaa annnggggtt aaatnctntn nncagancat taaaactgaa 120
 ggggaaaaaa aaaccaaaaa cgagcttntt anttnacntg ggnttgggnn gntgctgatn 180
 tnaagaagca anntttanan cnngcnnnat ganngagnn tcannttgaa atttnnacco 240
 t 241

<210> 392
 <211> 241
 <212> DNA
 <213> Homo sapiens

<400> 392
 gaggtactaa atggtatcct tagattaataa ttttgtgctt gataacagct gttttttcta 60
 cattagaaat aagatgccac acaagggaact acattccaga tttaaagaaa tgaaaggata 120
 ccattagtgt gtataacaga ttattgttca tacttgtaaa gcatcttatg tcattgagaa 180
 tataaagaac agtgccttag aagacagtga aaggtaagct ctagcttaat gtctatgatt 240
 t 241

<210> 393
 <211> 241
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 57, 75, 224
 <223> n = A,T,C or G

<400> 393
 ggcaggtaca taagcataat cagttatgga cagcttcttg tataaattgc tattcancaa 60
 tacataaact gctnaaaga tttatgctta caggtagaca ttcaatttac caataaaaca 120
 gcatgttctg aaaatatggg cacattttta aacatattaa gacagttctg ttaaccataa 180
 tagtcccaca gtatgactga gtaataagaa tctacttcaa aagnaaaaaa aaaattaatc 240
 a 241

<210> 394
 <211> 241
 <212> DNA
 <213> Homo sapiens

<400> 394
 aggtacagca gcagtagatg gctgcaacaa ctttctctct accccagccc agaaaatatt 60
 tctgccccac cccaggatcc gggaccaaaa taaagagcaa gcaggcccc ttactgagg 120
 tgctgggtag ggctcagtgc cacattactg tgctttgaga aagaggaagg ggatttgttt 180
 ggcactttta aaatagagga gtaagcagga ctggagaggc cagagaagat accaaaattg 240
 g 241

<210> 395
 <211> 241
 <212> DNA
 <213> Homo sapiens

<220>

<221> misc_feature
 <222> 1, 5, 8, 9, 14, 24, 26, 28, 32, 42, 54
 <223> n = A,T,C or G

<400> 395
 nggcnggnnc caanatatga aatntnanta tnatacatga tnaaaagctt tatntatttt 60
 agtgagtaat taagtttaca ctgtgaataa ggattaattc ccagatgacc atctacagtt 120
 actaccacat agaggggtata cacggatgga tcgattacaa gaatataaaa cttattttcc 180
 ttctgtatc cacatttctt tgcaatgtga atttgcaggc cctctcaaga agtggagtct 240
 a 241

<210> 396
 <211> 241
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 26
 <223> n = A,T,C or G

<400> 396
 gaggtacacc ttgaatgaca atgctnggag cccccctgtg gtcacgacg cctccactgc 60
 cattgatgca ccatccaacc tgcgtttcct ggccaccaca cccaattcct tgctgggtatc 120
 atggcagccg ccacgtgccg ggattaccgg ctacatcatc aagtatgaga agcctggggtc 180
 tcctcccaga gaagtgggtc ctcggccccg ccctggtgtc acagaggcta ctattactgg 240
 c 241

<210> 397
 <211> 241
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 90
 <223> n = A,T,C or G

<400> 397
 ggcaggtacc agcaggggga tgtgtttctg gggaattgtg gctctggaag cttcacgggtt 60
 tcccagaatg tggaaaatat atctgtgcan gatagaaatc ctgcccagag gctgtttctg 120
 tctcatttga gctctccttc atgtggcaga gctgactgtg gcggtttagg agcctacatt 180
 ttagaaaagc ttacctcaaa gttctgcatt gagcctgagc actggaaagg agataaaata 240
 a 241

<210> 398
 <211> 241
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 3, 11, 22, 27, 38, 41, 53, 59, 63, 69, 77, 78, 94, 131, 133,
 137, 149, 154, 162, 166, 167, 172, 175, 176, 179, 191, 230

<223> n = A,T,C or G

<400> 398

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gangtgacca ngacatcacc tnacacntgg aaagcganga nttgaatggt gcntacaang 60
ccntaccnt tgcccannac ctgaacgcgc cttntgattg ggacagccgt gggaaggaca 120
gttatgaaac nantcanctg gatgaccana gtgntgaaac cnacanncac angcnntcna 180
cattatataa ncggaaagct aatgatgaga gcaatgatca ttccgatgtn attgatagtc 240
a 241
```

<210> 399

<211> 241

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> 212, 226

<223> n = A,T,C or G

<400> 399

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cagagtgaga tgggagtggg agggccaatc tgatacagaa gggggtgaag ggtagggccc 60
ctgagcagcc caccctttac cctgacgaag gcaatcctcc tctggaatgt ctcttccttc 120
ttcagctctgg gttctgcctc agccacgaac tgggaaggag tgaggaacat cccaacggca 180
atgagagtat ccagtgact ccaaacagga angaatcagt gttcanaaag tcagggccct 240
t 241
```

<210> 400

<211> 241

<212> DNA

<213> Homo sapiens

<400> 400

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ggtactcttg ctcttttagc tagagtgtat gtgaaaataa agaaatacat cattgtattc 60
acaaccatgt gtcttcattt ataacttttt gtttaaaaaa tttttagttc aagtttagtt 120
cattgatatt atcctotgaa tgcagttaag gctgggcaga aattctactc atgtgacatc 180
tgccacaggt ctattttgaa gcttttcttc taatgggcaa tgtttgcctc taccaggatt 240
t 241
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<210> 401

<211> 241

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> 1, 2

<223> n = A,T,C or G

<400> 401

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nncaggtagt ttgtagagca gagagaggct ttggttcctc ctttcttcaa tcacgtggag 60
atgtgtcatc acctgggatt tcatctgggc cgccttttct ggggtcaacag ccaacacatg 120
ctggtaatga cggatgggat gtaagcgatc tttgttctca gcacggacat aacgccgtaa 180
ggcctggaga atgcgatgag gccgtggcgg gtcagactgc aaggcagcca ggtagttctc 240
c 241
```

<210> 402
 <211> 241
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 26, 27
 <223> n = A,T,C or G

<400> 402
 ggcagggtcca aaaaaaacct aaaaanngtt tcaggaatgt agagaaatat ccaacttaaa 60
 tagcgaaaaa gtgcaccata attactgctg cactgcagtc atttctgcaa ttcccatgtt 120
 tcttaataaa ctatcttgct agataacaca caatataaag agcaattatg aaaaacagac 180
 atttacatat acttctaaag tcttattggg aatatcctgt ttggccattg ggataaccaa 240
 t 241

<210> 403
 <211> 241
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 49
 <223> n = A,T,C or G

<400> 403
 aggtgttaac taccgctcc gagacgggat tgatgacgag tcctatgang ccattttcaa 60
 gccggtcatg tccaaagtaa tggagatggt ccagcctagt gcggtggtct tacagtgtgg 120
 ctgagctcc ctatctgggg atcggttagg ttgcttcaat ctaactatca aaggacacgc 180
 caagtgtgtg gaatttgtca agagctttaa cctgcctatg ctgatgctgg gaggcggtgg 240
 t 241

<210> 404
 <211> 241
 <212> DNA
 <213> Homo sapiens

<400> 404
 cagggtactgc aaccataaa atactgtttc ctcataattc accttcctta atttggagtt 60
 ttctgtcttc ttttcaaggc attcaaagta ggaataaact ttgcttgtgt tgggtggata 120
 ttgtttatag tgagtaacct tgtaggagtc ggtggccagg aggatgttga actcggcttc 180
 tgccgcagga ttcatctcgg gccggaggac aaggggcccg cgcgccgcga gctccctgac 240
 c 241

<210> 405
 <211> 266
 <212> DNA
 <213> Homo sapiens

<400> 405
 ttctgggctg gggagtggag agaaagaagt tgcagggctt acaggaaatc ccagagcctg 60

aggtttttctc ccagatttga gaactctaga ttctgcatca ttatctttga gtctatattc 120
 tcttgggctg taagaagatg aggaatgtaa taggtctgcc ccaagccttt catgccttct 180
 gtaccaagct tgtttccttg tgcacccctc ccaggctctg gctgcccctt attggagaat 240
 gtgatttcca agacaatcaa tccaca 266

<210> 406
 <211> 231
 <212> DNA
 <213> Homo sapiens

<400> 406
 ttggtgaaga accattcctc ggcatccttg cggttcttct ctgccatctt ctcatactgg 60
 tcacgcattct cgttcagaat gcggctcagg tccacgccag gtgcagcgtc catctccaca 120
 ttgacatctc caccacactg gcctctcagg gcattcatct cctcctcgtg gttcttcttc 180
 aggtaggcca gtcctcctt caggctctca atctgcatct ccaggtcagc t 231

<210> 407
 <211> 266
 <212> DNA
 <213> Homo sapiens

<400> 407
 cagcatcatt gtttataatc agaaactctg gtccttctgt ctggtggcac ttagagtctt 60
 ttgtgccata atgcagcagt atggaggagg gattttatgg agaaatgggg atagtcttca 120
 tgaccacaaa taaataaagg aaaactaagc tgcattgtgg gttttgaaaa ggttattata 180
 cttcttaaca attctttttt tcagggactt ttctagctgt atgactgtta cttgaccttc 240
 tttgaaaagc attcccaaaa tgctct 266

<210> 408
 <211> 261
 <212> DNA
 <213> Homo sapiens

<400> 408
 ctgtgtcagc gagcctcggg acactgattt ccgatcaaaa gaatcatcat ctttaccttg 60
 acttttcagg gaattactga actttcttct cagaagatag ggcacagcca ttgccttggc 120
 ctcaattgaa gggctcgcac ttgggtcctc tggctctctg ccaagtttcc cagccactcg 180
 agggagtaat atctggaggg caaagaagag acttatgtta ttgttgaacc tccagccaca 240
 gggaggagca tgggcatggg t 261

<210> 409
 <211> 266
 <212> DNA
 <213> Homo sapiens

<400> 409
 gctgacagta atacactgcc acatcttcag cctgcaggct gctgatgggt agagtgaat 60
 ctgtcccaga cccgctgcc ctgaatcggg cagggatccc ggattcccgg gtagatgcc 120
 agtaaatgag cagtttagga ggctgtcctg gtttctgctg gtaccaagct aagtagttct 180
 tattgttga gctgtctaaa acactctggc tggctcttga gttgatgggt gccctctcgc 240
 ccagagacac agccaggagg tgtgga 266

<210> 410
 <211> 181

<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> 9, 17, 24, 26, 65, 97, 98, 99, 100, 103, 105, 106, 107, 108,
120, 121, 123, 142, 145, 149, 162, 177
<223> n = A,T,C or G

<400> 410
caaaaggtnc tttttgntca aaancnattt ttatttccttg atatTTTTtct tttttttttt 60
tttgnggatg gggacttggtg aatttttcta aagggggnnnn ttannnnngg aagaaaaccn 120
ngntccggtt ccagccaaac cngtngctna ctttccacct tntttccacc tccctcnggt 180
t 181

<210> 411
<211> 261
<212> DNA
<213> Homo sapiens

<400> 411
gcccctgcag tacttggccg atgtggacac ctctgatgag gaaagcatcc gggctcacgt 60
gatggcctcc caccattcca agcggagagg ccgggctct tctgagagtc agggctctagg 120
tgctggagtg cgcacggagg ccgatgtaga ggaggaggcc ctgaggagga agctggagga 180
gctggccagc aacgtcagtg accaggagac ctctgccgag gaggaggaag ccaaggacga 240
aaaggcagag cccaacaggg a 261

<210> 412
<211> 171
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> 1, 6, 53, 79, 91, 96, 114, 132
<223> n = A,T,C or G

<400> 412
ntttntctt tacaattcag tcttcaacaa cttgagagct ttcttcatgt tgncaagcaa 60
cagagctgta tctgcaggnt cgtaagcata nagacngttt gaatatcttc cagnataatc 120
ggctctaact gncagagatg ggtcaacaaa cataatcctg gggacatact g 171

<210> 413
<211> 266
<212> DNA
<213> Homo sapiens

<400> 413
ttaggaccaa agatagcatc aactgtattt gaaggaactg tagtttgccg attttatgac 60
atttttataa agtactgtaa ttctttcatt gaggggctat gtgatggaga cagactaact 120
cattttgtta tttgcattaa aattattttg ggtctctgtt caaatgagtt tggagaatgc 180
ttgacttggt ggtctgtgta aatgtgtata tatatatacc tgaatacagg aacatcggag 240
acctattcac tcccacacac tctgct 266

<210> 414
 <211> 266
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 86, 153, 162, 178, 184, 205
 <223> n = A,T,C or G

<400> 414
 tttgccataa ttgagtgaag agtggcagat ggcattaact ctgctccgct tcaagctggc 60
 tccatgacca ctcaaggcct cccancctg ttcgtcaagt tgcctcaag tccaagcaat 120
 ggaatccatg tgtttgcaaa aaaagtgtgc tanttttaag gnctttcgta taagaatnaa 180
 tganacaatt ttcctaccaa aggangaaca aaaggataaa tataatacaa aatatatgta 240
 tatggttggt tgacaaatta tataac 266

<210> 415
 <211> 266
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 37, 103, 223
 <223> n = A,T,C or G

<400> 415
 cctccatcca gtctattaat tgttgccggg aagctanagt aagtagttcg ccagttaata 60
 gtttgcgcaa cggtgttgcc attgctacag gcctcggtgt gtnacgctcg tcgattggta 120
 tggcttcatt cagctccggg tcccaacgat caaggcgagt tacatgatcc cccatgttgt 180
 gcaaaaaagc ggtagctcc ttcggtcctc cgatcggtgt canaagtaag ttggccgcag 240
 tgttatcact catggttatg gcagca 266

<210> 416
 <211> 878
 <212> DNA
 <213> Homo sapiens

<400> 416
 cctgacgata gccatggctg taccacttaa ctatgattct attccaactg ttcagaatca 60
 tatcacaaaa tgacttgtag acagtagttt acaacgactc ccaagagagg aaaaaaaaaa 120
 aaaaagacgc ctcaaaattc actcaacttt tgagacagca atggcaatag gcagcagaga 180
 agctatgctg caactgaggg cacatatcat tgaagatgtc acaggagttt aagagacagg 240
 ctggaaaaaa tctcatacta agcaaacagt agtatctcat accaagcaaa accaagtagt 300
 atctgctcag cctgccgcta acagatctca caatcaccaa ctgtgcttta ggactgtcac 360
 caaagtcaga ttcggtgcta accagggtggc atctatgatc aacgtcgccc ctcttattta 420
 acaaagggct ctgaaggagg tgttctccaa gcaacaagga gactgcttca gtacaagact 480
 ttgcaccttg aattcaattg catcaagtgt ggatagcaaa ataagtatct taccattgaa 540
 atatgtgttc agcctaagat tttaccacc agcagaacaa aagtgagggg gagaggggatg 600
 ggccagttag gggatggggg agaaaaaaa atcacaggat taccaccaa gccttggttt 660
 aaaagggtc ccttactat tcaggaaggg aagtggagg agaaattaac caattcctgc 720
 cacagcagcc ctttttggt gcttcacaa tagatacttt atggagtggc acagccaacc 780
 ctatctgtga cctgccctgc ggataaacac agccaagcag gtttaattag atcaaagaca 840

caaagggcta ttccctcett tcataacaac gcagacct

878

<210> 417

<211> 514

<212> DNA

<213> Homo sapiens

<400> 417

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ttctgacttc tagaagacta aggctggctc gtgtttgctt gtttgccac ctttggtga 60
taccagaga acctgggcac ttgtgcctg atgccaccc ctgccagtca ttccctcatt 120
caccagcgg gaggtgggat gtgagacagc ccacattgga aaatccagaa aaccgggaac 180
agggatttgc ctttcacaat tctactcccc agatcctctc ccctggacac aggagacca 240
cagggcagga ccctaagatc tggggaaagg aggtcctgag aaccttgagg tacccttaga 300
tccttttcta cccactttcc tatggaggat tccaagtcac cacttctctc accggcttct 360
accagggctc aggactaagg cgttttctcc atagcctcaa cattttggga atcttccctt 420
aatcaccctt gtcctcctg ggtgcctgga agatggactg gcagagacct ctttggttgcg 480
ttttgtgctt tgatgccagg aatgccgcct agtt 514

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<210> 418

<211> 352

<212> DNA

<213> Homo sapiens

<400> 418

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ctgcaccagc gattaccagt ggcattcaaa tactgtgtga ctaaggattt tgtatgctcc 60
ccagtagaac cagaatcaga caggtagatg ctagtcaaca gcaagtcttt gttggattcg 120
agtaggctca ggatctgctg aaggctcgag gagttagtcc ccgcaatcaa gagcctgtct 180
tcctgaagcc cttggtgata ttttgccact cagccaagaa tgaggatgca tccttcagat 240
tctctatgtc ccgaacctgg aaccatcca cgccagcttg cagccaaaac tccagagcat 300
ccttcacctt ggtggaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aa 352

```

<210> 419

<211> 344

<212> DNA

<213> Homo sapiens

<400> 419

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ctggacacca taatcccttt taagtggctg gatggtcaca cctctcccat tgacaagctg 60
ggttaagtca ataggttgac taggatcaac acgacccaaa tcaataagat actgcagtct 120
attgagactc aaaggcttat actggcgtct gaaactatgt ccttcgttaa acccgatttt 180
tgggattcgg atgtaaaatg gagtctggcc tccctcaaag cccaagcggg gccgggttcc 240
tctttgcctt tctcctttat ggcctctgcc acattttcta cctcttctcc gacctcttgg 300
tcttctctcc ggtttcttgg agccgggatt cggctttaag ttgg 344

```

<210> 420

<211> 935

<212> DNA

<213> Homo sapiens

<400> 420

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cgaaagtcaa cgtaaggagg ctcaggtgaa ccatgatgat gaccttctgt tgactttgaa 60
atattggctc ttgtgggtga caaaagccag acaagctgtg gctgtgggtcc gattttaaga 120
cgaggttctc aaagatccaa aggagggaaa gggatttggg aacactgtgt atcatctgag 180
acacacgtgt cctcatgac ttaaagtgcct actttaaaagc cacctaatac tgcccttcat 240

```

```

tgtggtcaga agagatttct acaaaagcac tcagaattct ggaggcagtt gtgattttgc 300
catgtggcag ttggtttgtg gagttgggca ggtgtgaaag ggtaaaactc cacttctgaa 360
tgctgcttct gccccctggg acccagcaca ttggttagacc atcttcttga ctgaaaattc 420
tctctgatg ctgagccctg caccaccacc ttccttttcc taactatgaa ttgatggcaa 480
agtccactca aaacaaccag ttaagtgtc acgagagagt agtcaagcac ctccagaaaag 540
aaaccgggtt tttgttcaca tagcaggaag tgactccctg ggtggtaatt tatcttggaa 600
acacaggtag attggcagaa aaacgggaac atgtaggtac cgcgatgttg gtgcatgtcc 660
attacttttg gataggcttt ctcatgtctt cctcaaataga tagttgagcc agttttccag 720
tggcaattct gagtgacttg cgcttgtctt atggtgtggt caagggacgt tcagaactac 780
ggaaaacttt tactgaaaca gcgaagcaga gtataccggc atgagaggga agatgaacac 840
tcacctatgt accactcttt gacaataaat atagtatttc tcaaaaaaaaa aaaaaaaaaa 900
agtaaaaaaa ctgaaatcgc aagtcaaaaa atcca 935

```

```

<210> 421
<211> 745
<212> DNA
<213> Homo sapiens

```

```

<400> 421
ggcttcgagc ggccgcccgg gcaggctcta gatgtcattt gggacccttc acaaccattt 60
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ggttaacaac agtcccctgc ttggcttcta ttctgaatcc ttttctttca ccatgggggtg 180
cctgaagggt ggctgatgca tatggtacaa tggcaccag tgtaaagcag ctacaattag 240
gagtggatgt gttctgtagc atcctattta aataagccta ttttatcctt tggcccgctca 300
actctgttat ctgctgcttg tactggtgcc tgtacttttc tgactctcat tgaccatatt 360
ccacgaccat ggttgtcatc cattacttga tcctacttta catgtctagt ctgtgtggtt 420
ggtggtgaat aggtctcttt ttacatggtg ctgccagccc agctaattaa tgggtgcacgt 480
ggacttttag caagcgggct cactggaaga gactgaacct ggcattggaat tcctgaagat 540
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ctactgcgga acctcaaaat cagttagattt ggaagtgatt caaagctaaa ctttttcctt 660
ggccctcctt gtgttctaata tgcttgcaag tgtaatacta ggatgtccaa gatgccagtt 720
tttgcttctt tgttagttgt cagac 745

```

```

<210> 422
<211> 764
<212> DNA
<213> Homo sapiens

```

```

<400> 422
gagttcagta gcaaagtcac acctgtccaa ttccctgagc tttgtctact cagctaattg 60
gatggcaaag gtggtggtgc tttcatcttc aggcagaagc ctctgcccat cccctcaag 120
ggctgcaggc ccagttctca tgctgccctt ggggtgggcat ctgttaacag aggagaacgt 180
ctgggtggcg gcagcagctt tgetctgagt gcctacaaag ctaatgcttg gtgctagaaa 240
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cactgcttaa gtgcctgcag gagccgctg ccaagctccc cttcctacac ctggcacact 360
ggggtctgca caaggctttg tcaaccaaag acagcttccc ctttttgatt gcctgtagac 420
tttgagacca agaaacactc tgtgtgactc tacacacact tcagggtggt tgtgcttcaa 480
agtcattgat gcaacttgaa aggaacagct ttaatgggtg aaatgaacta ccatttataa 540
cttctgtttt tttattgaga aaatgattca cgaattccaa atcagattgc caggaagaaa 600
taggacgtga cggtactggg ccctgtgatt ctcccagccc ttgcagtccg ctaggtgaga 660
ggaaaagctc tttacttccg cccctggcag ggaattcttg gttatgggag aaaccagaga 720
tggaatgag gaaaatatga actacagcag aagccctgg gcag 764

```

```

<210> 423

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<211> 1041
 <212> DNA
 <213> Homo sapiens

<400> 423
 ctccagagagg ttgaaagatt tgcctacgaa agggacagtg atgaagctaa gctctagatc 60
 caggatgtct gacttcaaatt tgaaactccc aaagtaataa gtttggaagg gtgggggtgtg 120
 gcctttccag gatgggggtc ttttctgctc ccagcggata gtgaaacccc tgtctgcacc 180
 tgggtgggag tggtgctttc ccaaagggtt tttttttagg tccgtcgtctg tcttgtggat 240
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 cggcaacctg cacctgttca tcaatgccta caacaggatg tgggatgtag ttcagccaca 480
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 gtccccagga aggacacctg gcctgtaagc tggttcctgg cattcagctc gccttgcagg 660
 gatctgaaca aacactccag accactgggg gtgcagacgt gagagggacg cagtcgcaca 720
 ctccagagggt tgagagtaaa tatgtgtgcc cgctgctgac cttcacgaaa ggccaaatgt 780
 aagaagagct aagttagaga gcagcaaagc actcctggag gccggggata atccaggcag 840
 gcttctggga gtttgtcatt ccaaggataa ggaggacctg aacatggcct ttgcctaagg 900
 cgtggccctc tcaaccagca ctagggtgctt atctggagct cagctagggg aggagacagc 960
 tcagggccat tgggtgtcagc cagagactct gtaatcttcc agggagctcg ctcaacctgc 1020
 tgagctcgct ctgccacgca c 1041

<210> 424
 <211> 1288
 <212> DNA
 <213> Homo sapiens

<400> 424
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 ggaagacctg caacccaagg atggaaggcc cctgtcacaa agcctacctg gatggataga 120
 ggacccaagc gaaaaaggta tctcaagact aacggccgga atctggaggc ccatgaccca 180
 gaacccaagg aggatagaag cttgaagacc tggggaaatc ccaagatgag aaccctaaac 240
 cctacctctt ttctattgtt tacacttctt actcttagat atttccagtt ctctgtttta 300
 tctttaagcc tgattctttt gagatgtact ttttgatgtt gccggttacc tttagattga 360
 cagtattatg cctgggccag tcttgagcca gctttaaatc acagctttta cctatttggt 420
 aggctatagt gttttgtaaa cttctgtttc tattcacatc ttctccactt gagagagaca 480
 ccaaaatcca gtcagtatct aatctggctt ttgttaactt ccctcaggag cagacattca 540
 tataggatgat actgtatttc agtcttttct tttgacccca gaagccctag actgagaaga 600
 taaaatggtc aggttgtttg ggaaaaaaa gtgccaggct ctctagagaa aaatgtgaag 660
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 agaagcacct gccagcaaca gcttccttct ttgagcttag tccatccctc atgaaaaatg 780
 actgaccact gctgggcagc aggagggatg atgaccaact aattcccaaa cccagctctc 840
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 aagataaatg gaagactcct gaacttgtga actgatgtga aatgcagaat ctctttttgag 1140
 tctttgctgt ttggaagatt gaaaaatatt gttcagcatg ggtgaccacc agaaagtaat 1200
 cttaagccat ctataggtca caattgaaac aaactgggga gttggttgct attgtaaaat 1260
 aaaatatact gttttgaaaa aaaaaaac 1288

<210> 425

<211> 446
 <212> DNA
 <213> Homo sapiens

<400> 425
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 gcctaacatc ttccacaagg atcccgatgt gaacatgctg cacgtgtttg ttctgggcga 120
 atggcagccc atcgagtacg gcaagaagaa gctgaaatac ctgccctaca atcaccagca 180
 cgaatacttc ttcttgattg ggccgccgct gctcatcccc atgtatttcc agtaccagat 240
 catcatgacc atgatcgtcc ataagaactg ggtggacctg gcctgggccc tcagctacta 300
 catccggttc ttcatcacct acatcccttt ctacggcatc ctgggagccc tccttttcct 360
 caacttcac caggttcctgg agagccactg gtttgtgtgg gtcacacaga tgaatcacat 420
 cgtcatggag attgaccagg aggacc 446

<210> 426
 <211> 874
 <212> DNA
 <213> Homo sapiens

<400> 426
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 acattctaca atggaaactt ttattaaatg ctgcatgtac tgtgctatgg accacgcaca 120
 tacagccatg ctgtttcaga agacttgaaa tgccattgat agtttaaaaa ctctacaccc 180
 gatggagaat cgaggaagac aatttaaatgt ttcatctgaa tccagagggtg catcaaatta 240
 aatgacagct ccacttgga aataatagct gttacttgat ggtatccaag aagaaatggg 300
 tgggtgatga taaattcaga aatgcttccc caaagggtgg tggtttttaa aaagttttca 360
 ggtcacaacc ctgacagaaa aactgatgc ccaacacact gattcgcggt ccaggaaaca 420
 cgggtcttcc aagttccaag gggtgagggt tcccaacga tcaagttcct gtgctgtaat 480
 caagagggtc ctttgactg gatagggagc acttgggagc tgtacaccat cagtcataat 540
 ggatggcagt gtaaaagatg atccaaatga cctgagatgc tctgaggag tgggtgcacca 600
 gaccaggag tgccactgta gggctgcttc tttgctttag tcatcacaca cacacacagc 660
 tccagagcag caatggcctt tcctgtaaca ggaaaaaagc ctctgctat tcccaagaac 720
 cctcgtaatg gcaaaactcc ccaaatagaca cccaggacca cagcaatgat ctgtcggaac 780
 cagtagatca catctaaaaa ttcatacctta tcctcccagg ccgcgtcgct ccgcagcacc 840
 ttactccaga cggagacttt gagggccccg ttgg 874

<210> 427
 <211> 638
 <212> DNA
 <213> Homo sapiens

<400> 427
 acttgtaatt agcaacttggg gaaagctgga aggaagataa ataacactaa actatgctat 60
 ttgatttttc ttcttgaaaag agtaaggttt acctgttaca ttttcaagtt aattcatgta 120
 aaaaatgata gtgattttga tgtaatttat ctcttgtttg aatctgtcat tcaaaggcca 180
 ataattttaag ttgctatcag ctgatattag tagctttgca accctgatag agtaaataaa 240
 ttttatgggc ggggtgccaaa tactgctgtg aatctatttg tatagtatcc atgaatgaat 300
 ttatggaaat agatatttgt gcagctcaat ttatgcagag attaaatgac atcataatac 360
 tggatgaaaa cttgcataga attctgatta aatagtgggt ctgtttcaca tgtgcagttt 420
 gaagtattta aataaccact cctttcacag tttattttct tctcaagcgt tttcaagatc 480
 tagcatgtgg atttttaaag atttgccctc attaacaaga ataacattta aaggagattg 540
 tttcaaaaata tttttgcaaa ttgagataag gacagaaaga ttgagaaaca ttgtatatatt 600
 tgcaaaaaca agatgtttgt agctgtttca gagagagt 638

<210> 428
 <211> 535
 <212> DNA
 <213> Homo sapiens

<400> 428
 acaagatgat tcttcctcct caatttgaca gatcaaagaa gtatcccttg ctaattcaag 60
 tgtatggtgg tccctgcagt cagagtgtaa ggtctgtatt tgctgttaat tggatatctt 120
 atcttgcaag taaggaaggg atggtcattg ccttggtgga tggtcgagga acagctttcc 180
 aaggtgacaa actcctctat gcagtgtatc gaaagctggg tgtttatgaa gttgaagacc 240
 agattacagc tgtcagaaaa ttcatagaaa tgggtttcat tgatgaaaaa agaatagcca 300
 tatggggctg gtcctatgga ggatacgttt catcactggc ccttgcattt ggaactggtc 360
 ttttcaaattg tggatatgca gtggctccag tctccagctg ggaatattac gcgtctgtct 420
 acacagagag attcatgggt ctccaacaa aggatgataa tcttgagcac tataagaatt 480
 caactgtgat ggcaagagca gaattttca gaaatgtaga ctatcttctc atcca 535

<210> 429
 <211> 675
 <212> DNA
 <213> Homo sapiens

<400> 429
 actattttca accctgagca ttaacactgc ataccaaggg ggggtgggtc aagaagctgg 60
 ttagatcgaa gcacaagcac aagccactga tattctctat gtgatcaggt ttttacaaaa 120
 aaatacatag ttttcaataa ataatgctta attttacaac tttgatacag caatgtcata 180
 caccgtttca acacactaca ctctgcatgc tagatagtct acgagaagac gaaactttgc 240
 catgcatttt ctttcccccc tagtgctatc aaacacttca tctccagcg cactgcctca 300
 ggtagcttta ccttctctct gtttcacagc aataggccgt gcgctggcat gcaaactcta 360
 aaaaagggtc cccccacaaa ccactcagac ttctacacaa aagggttttt cagcttttct 420
 gctcccaaac ctggagtggc taagaaagta agtttcatgt ggccttgga aatacacact 480
 tggttaacagt gtcattgtga aaactgctct aaaacatcag gtggttctgt cctggtggcc 540
 gtcacgaagc attatgggat gccataacca ctaggagtcc caaaccggaa aaaataggcc 600
 tccgttttaa aacagtcaat tcaaaaaagg tgtcacagaa caaatgcaaa agactcttaa 660
 acccacaaca tatgt 675

<210> 430
 <211> 434
 <212> DNA
 <213> Homo sapiens

<400> 430
 acctctgcca gaagtccagc gagaggacct cacagtagag cacaggccac tccgggagtg 60
 catcagaaga ttcatcctca tggaggaaga aggtttcaaa cgtgaatggg taggagaagt 120
 gagccacctt gtccattgcc agggacttgg tgggtgcaggt ctgtgttact cctgagagct 180
 gctggaatgc tgggcttgac cagtgagcag ttggcaattc taaaaagaag tggacgtaga 240
 gattgtcata ctcatagcct tgggctgaaa cgacctctcc atttacaaag agccggaggg 300
 cacctgggac agtcatctca aagtcgggtgc ctacgaggct gctgagatac tccttgtgcc 360
 ggccataaag atccttgaac actcgccgtt cccgctcctc ctccctccggc tgtgcgtggg 420
 gggaacatt gtcg 434

<210> 431
 <211> 581
 <212> DNA
 <213> Homo sapiens

<400> 431

```

acacaagcct ccagcccgcac ccagcggcct aatgaaactc tggcaacctc tcctgggcgt 60
ggccacgagt atccagctcc aagcccaagt gaggcgggga gtcaacttcc ccatgattgc 120
caagtgacca agaccagaag cagggacgat taggctagtt ctgcggcaag gtgaactgga 180
gaccctgtct ctgccctcct tccctggcct gtccacacaga catcccgttg ttttaaccac 240
tgcctttgca aggacctgct ctgtccactc caaatcaaag gatacttgca tccttcttac 300
acagactccc atctctctgc tcatagtggc cccaggctgc ccgagaaaaa gaaacttggg 360
tcagtagaag gctcattagt gtgaaggagt gagaggccag gccttcctgt gacataatgc 420
ttctatgctt gtttcctaaa cacttggtcc acacacaata cctgggcagg aagagagaac 480
caagcaccac tggatggctc tggagccagg ggacttctat gcacatacaa ccaacatcac 540
cccactctgc tcatctgtgc ctccaccctg aacagcagag t 581

```

<210> 432

<211> 532

<212> DNA

<213> Homo sapiens

<400> 432

```

actccaactc aagttttacaa gttacacctt tgccacagcc ttggctaaat cttgaactag 60
tgcagaattc agctgtggta gagtgtgat cttagcatgc ttcgatgtgg catacttggt 120
cttgacagtc atgtgctttg taagtccttg atttaccatg actacattct tagccagggtg 180
ctgcataact ggaagaagag attcttcagt atatgacagg taatgttgta gagttgggtg 240
ccattcacca ttatccagaa ttttcagtg ctaagcaaaaa gtcctgtctg caatttgaga 300
aggaggaaa gtcaccatgt catagtccaa catagttagt tccatcagggt atttggccaa 360
agtatgttgc tcgacatcaa cctctccaat cttagatgct ctccgaagga agtgcaaagg 420
tagaggccga cccagaccaa agtttaaagc tcttagaatc ttcatittcca tctgtctgat 480
ttggtgctta gtataagtgt tgtcagtcac aaaagcaaag tcaccaatth ct 532

```

<210> 433

<211> 531

<212> DNA

<213> Homo sapiens

<400> 433

```

acttggtttt acagctcctt tgaaaactct gtgttttgaa tatctctaaa aacatagaaa 60
aactacagct ggttttagaaa ttactaattt tacttctaag tcattcataa acctgtgcta 120
tgaaatgact tcttaaatat ttagttgata gactgctaca ggtaataggg acttagcaag 180
ctcttttata tgctaaagga gcatctatca gattaagtta gaacatttgc tgtcagccac 240
atattgagat gacactaggt gcaatagcag ggatagattt tgttggtgag tagtctcatg 300
ccttgagatc tgtggtgggc ttcaaaatgg tggccagcca gatcaaggat gtagtatctc 360
atagttccca ggtgatattt ttcttattag aaaaatatta taactcattt gttgtttgac 420
acttatagat tgaaatttcc taattttatt taaattttta gtggttcttt ggttccagtg 480
ctttatgttg ttgttgtttt tggatgggtg tacatattat atgttctaga a 531

```

<210> 434

<211> 530

<212> DNA

<213> Homo sapiens

<400> 434

```

acaagagaaa acccctaaaa aaaggatggc tttagatgac aagctctacc agagagactt 60
agaagttgca ctagctttat cagtgaagga acttccaaca gtcaccacta atgtgcagaa 120
ctctcaagat aaaagcattg aaaaacatgg cagtagtaaa atagaaacaa tgaataagtc 180

```



```

acaattggta tccatatctt gttgaaattg taatgggaaa acaatatatt tcaatctcta 60
tgtagatagt ggggttttgt tttcataata tattctttta gtttactgta tgagttttgc 120
aggactgcat aatagatcac cacaatcata acatcttagg accacagaca tttatgagat 180
catggcttct gtgggttaga agtatgctca tgtcttaact gggtcctctg ctcagtctta 240
tctggctgca atcaagggtg cagctgggct gaattttcat ttggaatctt gactgggaaa 300
gagtctgctt ccaagggtcat gaagtttgct ggcaaaatgt atgtttttat gacagtatga 360
ctgaaatccc aagctatctc ctgactttta gctgggtaat ctcaggccct aaatggtgcc 420
tacagttcct agaggctggt cacagttctt agccatgtgg atttcctcaa catggctgct 480
tgcttcatca agtcagcaag aatagcctgt catatcagtg tatacaggc tcactcagga 540
taatttccct actgatgagc caaacactaa ctgattttag agcttaacta catctgcaaa 600
attcngttca ccagaggcaa gtcatatcca ggaaggaga agtgt 645

```

<210> 438

<211> 485

<212> DNA

<213> Homo sapiens

<400> 438

```

acagaattga gagacaagat tgcttgtaat ggagatgctt ctagctctca gataatacat 60
atttctgatg aaaatgaagg aaaagaaatg tgtgttctgc gaatgactcg agctagacgt 120
tcccaggtag aacagcagca gctcatcact gttgaaaagg ctttggcaat tctttctcag 180
cctacaccct cacttgttgt ggatcatgag cgattaaaaa atcttttgaa gactggtggt 240
aaaaaaagtc aaaactacaa catatttcag ttgaaaatt tgtatgcagt aatcagccaa 300
tgtatttatc ggcacgcgaa ggaccatgat aaaacatcac ttattcagaa aatggagcaa 360
gaggtagaaa acttcagttg ttccagatga tgatgtcatg gtatcgagta ttctttatat 420
tcagttccta ttttaagtcat ttttgtcatg tccgccta at tgatgtagta tgaaaccctg 480
catct 485

```

<210> 439

<211> 533

<212> DNA

<213> Homo sapiens

<400> 439

```

acagcagttt cctcatccct gcagctgtgt ttgaacaggt catttaccat actgtcctcc 60
aggttcaaca gtatggctcc aaatgatgaa atttcattct gatthttctgg ctgaagacta 120
ttctgtttgt gtatgtccac cacagttact ttatcccttc atctgtggat gggcagaatg 180
aaacatatat ggaaatgttc tgtgcaataa aaacagcagt ggtaacacag atgtaggctc 240
tgagtgtctc actggagact gaagtccaca gatatgcaac aaagcctttg tctccctgat 300
gtttttgcct cctgctgggc atgtgctttc acacatcaag agaggacatt taacatttga 360
gccacagtggt catttgctgt tgtctgatgg ttggttgcca gagaatttga actggagatg 420
aactttatta tccaggacgc tgagagtata acatgcatga cagagctttt agagcactgt 480
gatgtaacat gtcaagcaga aatagggagc atgtttacag ccattctatg aaa 533

```

<210> 440

<211> 341

<212> DNA

<213> Homo sapiens

<400> 440

```

catggggtag ggggggtcggg gattcattga attgtggttg gcaggagcaa gccctgctca 60
cactctcaca ctgcaccca gaattgtcaa agatacagat tgtaaaaatc tacgatccct 120
cagtctcact cacaaaaaat aaaatctcat gtccccaacg aaccagagt cagacgacag 180
ctggagcatt ggcagggaca gtcagaaagg agacaagtga aaacggtcag atggacacag 240

```



```
gcggaggaga aaagacagag ggagagagac catcggaac aatcagaggg gccgagacga 300
tcagaaaagg gtcagcccga gacaggctga gccagagttt c 341
```

```
<210> 441
<211> 572
<212> DNA
<213> Homo sapiens
```

```
<220>
<221> misc_feature
<222> 53, 84, 132, 138, 148
<223> n = A,T,C or G
```

```
<400> 441
aagtttgggg ataatttatt atgcagcaag agataatata caggacttct canagcactt 60
aatatgttaa tataaatctc caanaaaaaa gatatacaat gaaacattcc tcttagttat 120
ctggccaagg anactttntt tttttganaa tattcttcaa aaagctgatc taatgatatg 180
gctctggtcc tacaattcca tgtaacttct aaccttgatt ttatctcatg agcaaatcat 240
ttatecttcc agaacctcaa cttttccctt ttacaaagta gaaataaacc atctgccttt 300
acataaatca ttaatacagc cctggatggg cagattctga gctatttttg gctggggggg 360
gggaaatagc ctgtggaggt cctaaaaaga tctacggggc tcgagatggg tctctgcaag 420
gtagcaggtg ggctcagggc ccatttcagt ctttggtccc caggccattt ccacaaaatg 480
gtgagaaata gtgtcttctt ttagcttgct cataactcaa agatgggggg catggacctg 540
ggcctttcta ggctagggca tgaacctcct cc 572
```

```
<210> 442
<211> 379
<212> DNA
<213> Homo sapiens
```

```
<220>
<221> misc_feature
<222> 34, 67
<223> n = A,T,C or G
```

```
<400> 442
tcccagctgc actgcttaca cgtcttctt cgtnttcacc taccgccagg ctgactcctt 60
cccagntgt gcagctgcc accgcaagg cagcagcagc aatgagcctt cctctgactc 120
gctcagctca cccagctgc tggccctgtg agggggcagg gaaggggagg cagccggcac 180
ccacaagtgc cactgccga gctgggtgat tacagagagg agaaacacat cttccctaga 240
gggttcctgt agacctaggg aggaccttat ctgtgcgtga aacacaccag gctgtggggc 300
tcaaggactt gaaagcatcc atgtgtggac tcaagtcctt acctcttccg gagatgtagc 360
aaaacgcatg gagtgtgta 379
```

```
<210> 443
<211> 511
<212> DNA
<213> Homo sapiens
```

```
<220>
<221> misc_feature
<222> 444
<223> n = A,T,C or G
```

<400> 443

```

acatgcccc aaaggctcgc ttcatgtcta cgattctcta cttaaatcca cattcacagc 60
tattgcctca gaccctctgg aggagggggc aggggttagc tggctttgaa tagcatgtag 120
agcacaggca gtgtggccac aaatgtcaca caggtgacca gggtgctata gatgggtgttc 180
ctgttgactt gggcttctag tctctgctcc gtgtctgaca gtgccaaagat catgctcccc 240
tgctccagca agaagctggg catagccccg tctgctgggt ccaccaggcc tgggtgtgct 300
gcagacttta caagctgaac caccacagcc atttggttac aagtcttttc taggccatca 360
agctgctctc gtaagccttc tagacatgaa tggacttgcc tggaaatgact aagctgctct 420
ttcaaggcag ctgaaaggac atcnacatct ctgtctctgg tcgggggact acctgcctgt 480
gaccagagt cctgccctgg cccagcagca t 511

```

<210> 444

<211> 612

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> 547

<223> n = A,T,C or G

<400> 444

```

acaggaagaa ttctacagtt aatctatcac agtggtccag caaagcatat gttgaaaact 60
acagttttca atctaacatc taaattttta aaagtagcat ttcagcaaca aacaagctca 120
gagaggctca tggcaaaagt gaaataacag aactattgct cagatgtctg caaagtcaag 180
ctgctgccct cagctccgcc cacttgaagg cttaggcaga cacgtaaggt ggcggtggct 240
ccttggcagc accattcaca gtggcatcat catacggagg tagcagcacc gtagtgtcat 300
tgctggtaac ataaaccagg acatcagagg agttcctacc attgatgtat cggtagcagt 360
tccaaacaca gctaatacag taacccttaa aagtcaagat aatgctaata aacagaagaa 420
taataaggac caaacaggta ggattcactg acatgacatc atctctgtag ggaaaattag 480
gaggcagttg cagtatgtat tcctgaatgg agtttggata aataagcaca gtgattgcaa 540
ccaacancct caggggcaaag tcaaagatct ggtaacagaa gaatgggatg atccaggctg 600
cgcgttgctt gt 612

```

<210> 445

<211> 708

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> 643, 676

<223> n = A,T,C or G

<400> 445

```

accatcctgt tccaacagag ccattgccta ttctaaatt gaatctgact ggggtgtgcc 60
ctcctcggaa cacaacagta gaccttaata gtggaaacat cgatgtgcct cccaacatga 120
caagctgggc cagctttcat aatggtgtgg ctgctggcct gaagatagct cctgcctccc 180
agatcgactc agcttggatt gtttacaata agcccaagca tgctgagttg gccaatgagt 240
atgctggctt tctcatggct ctgggtttga atgggcacct taccaagctg gcgactctca 300
atatccatga ctacttgacc aagggccatg aaatgacaag cattggactg ctacttgggtg 360
tttctgctgc aaaactaggc accatggata tgtctattac tcggcttggt agcattcgca 420
ttcctgctct cttaccccca acgtccacag agttggatgt tcctcacaat gtccaagtgg 480
ctgcagtggg tggcattggc cttgtatatc aagggacagc tcacagacat actgcagaag 540

```

```

tctgtttggc tgagatagga cggcctcctg gtcctgaaat ggaatactgc actgacagag 600
agtcatactc cttagctgct ggcttgcccc tgggcatggg ctncctgggg catggcagca 660
atttgatagg tatgtntgat ctcaatgtgc ctgagcagct ctatcagt 708

```

```

<210> 446
<211> 612
<212> DNA
<213> Homo sapiens

```

```

<400> 446
acaagcaacg cgcagcctgg atcatcccat tcttctgta ccagatcttt gactttgccc 60
tgaacatggt ggttgcaatc actgtgctta tttatccaaa ctccattcag gaatacatac 120
ggcaactgcc tcctaatttt ccctacagag atgatgtcat gtcagtgaat cctacctgtt 180
tggtccttat tattcttctg tttattagca ttatcttgac ttttaagggt tacttgatta 240
gctgtgtttg gaactgctac cgatacatca atggtaggaa ctctctgat gtcctgggtt 300
atgttaccag caatgacact acggtgctgc taccctcgta tgatgatgcc actgtgaatg 360
gtgctgccaa ggagccaccg ccaccttacg tgtctgccta agccttcaag tgggcggagc 420
tgagggcagc agcttgactt tgcagacatc tgagcaatag ttctgttatt tcacttttgc 480
catgagcctc tctgagcttg tttgttgctg aaatgctact ttttaaaatt tagatgttag 540
attgaaaact gtagttttca acatatgctt tgctggaaca ctgtgataga ttaactgtag 600
aattcttctt gt 612

```

```

<210> 447
<211> 642
<212> DNA
<213> Homo sapiens

```

```

<400> 447
actgaaagaa ttaaagtcag aagtcttccc aaaacaaaaa gaactgcca cagagaaaat 60
cctttctgat acttttcatt gctaaaataa aacaggcggg aaatgtggaa aagaaattca 120
acaaaataat gtagcaccag aagaacaagt cctagatgat tcaagttcaa aaggtaagct 180
ccagcaatgt ggaagaggta aagaccaatg tagacaagct gacgaggaa atcttctttt 240
ttggttttct ggaagtagag ttcaggaaaa gcatgaagcc agtaagccag ctgtgatatg 300
tagaaaaact tcatttgaaa tgtcatcagg ttatggggat aagccctcca taagatagtt 360
gggtctgaga tgtagttttc agagatgaga atgaatgtgc cccaaacaca ggcaaaaagg 420
tagaacgcac taagctgacc agattcatta aacttgctgt gttttgtttt ggagaagtgc 480
attcgctgt taattttatc caacatatac tcttgaatta cggcatgaat aattatcgcc 540
actagcatgt agaagaaaac agtagccaaa tctttgatgc catagtaata aagggacact 600
gattcagtag cttgttcttc tgttgctggg aggggtgacat tg 642

```

```

<210> 448
<211> 394
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> 66
<223> n = A,T,C or G

```

```

<400> 448
accagaagac cttagaaaaa ggaggaaagg aggagaggca gataatttgg atgaattcct 60
caaaagnttt gaaaatccag aggttcctag agaggaccag caacagcagc atcagcagcg 120
tgatgttatc gatgagccca ttattgaaga gccaaagccgc ctccaggagt cagtgatgga 180

```

```

ggccagcaga acaaacatag atgagtcagc tatgcctcca ccaccacctc agggaggttaa 240
gcgaaaagct ggacaaattg acccagagcc tgtgatgcct cctcagcagg tagagcagat 300
ggaaatacca cctgtagagc ttcccccaga agaacctcca aatatctgtc agctaatacc 360
agagttagaa cttctgccag aaaaagagaa ggag                                     394

```

```

<210> 449
<211> 494
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> 66
<223> n = A,T,C or G

```

```

<400> 449
acaaaaaaca caaggaatac aaccaaatag aaaatagtcc tgggaatgtg gtcagaagca 60
aaggcntgag tgtctttctc aaccgtgcaa aagccgtgtt cttcccggga aaccaggaaa 120
aggatccgct actcaaaaac caagaattta aaggagtttc ttaaatttcg accttgtttc 180
tgaagctcac ttttcagtgc cattgatgtg agatgtgctg gagtggctat taaccttttt 240
ttcctaaaga ttattgttaa atagatattg tggtttgggg aagttgaatt ttttataggt 300
taaagtcat tttagagatg gggagaggga ttatactgca ggcagcttca gccatgttgt 360
gaaactgata aaagcaactt agcaaggctt cttttcatta ttttttatgt ttcacttata 420
aagtcttagg taactagtag gatagaaaca ctgtgtcccg agagtaagga gagaagctac 480
tattgattag agcc                                     494

```

```

<210> 450
<211> 547
<212> DNA
<213> Homo sapiens

```

```

<400> 450
actttgggct ccagacttca ctgtccttag gcattgaaac catcacctgg tttgcattct 60
tcattgactga ggttaactta aaacaaaaat ggtaggaaag ctttcctatg cttcgggtaa 120
gagacaaaatt tgcttttgta gaattgggtg ctgagaaagg cagacagggc ctgattaaag 180
aagacatttg tcaccactag ccaccaagtt aagttgtgga acccaaaggt gacggccatg 240
gaaacgtaga tcatcagctc tgctaagtag ttaggggaag aaacatattc aaaccagtct 300
ccaaatggga tctgtgggtt acagtgaatg gccactcctg ctttattttt cctgagattg 360
ccgagaataa catggcactt atactgatgg gcagatgacc agatgaacat catcatccca 420
agaatatgga accaccgtgc ttgcatcaat agatttttcc ctgttatgta ggcattcctg 480
ccatccattg gcacttggtc cagcacagtt aggccaacaa ggacataata gacaagtcga 540
aaacagt                                     547

```

```

<210> 451
<211> 384
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> 8, 9, 19, 41
<223> n = A,T,C or G

```

```

<400> 451

```

```

actacttntt ggtaaang ccactggtag agtcatctga ntgtaaacaa tgtccctgca 60
ctgctggaat aatccactgg ctccaagaa aagaaaatgg tctgaagcct ctgttggtggc 120
tctcacaact catctttccc taagtcatca agctccacat cactgaggtc aatgtcatcc 180
tccacgggaa gctcgccatc cctgccgtcc caaggctctc tctcaacgat ggtagggaaa 240
gccccgcctc ctacaggtgc cgtggagcca cgccaaaag agagctccct gagaaactcg 300
ttgatgcctt gctcactgaa ggagcctttt agcagagcaa atttcatctt gcgtgcattg 360
atggcggcca tggcgggta ccca                                     384

```

```

<210> 452
<211> 381
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> 291, 341, 368
<223> n = A,T,C or G

```

```

<400> 452
actctaaagt tgccactctc acaggggtca gtgataccca ctgaacctgg caggaacagt 60
cctgcagcca gaatctgcaa gcagcgctg tatgcaacgt ttagggccaa aggctgtctg 120
gtggggttgt tcatcacagc ataatggcct agtaggtcaa ggatccaggg tgtgaggggc 180
tcaaagccag gaaaacgaat cctcaagtcc ttcagtagtc tgatgagaac tttaactgtg 240
gactgagaag cattttcctc gaaccagcgg gcatgtcgga tggctgctaa ngcactctgc 300
aatactttga tatccaaatg gagttctgga tccagttttc naagattggg tggcactgtt 360
gtaatganaa tcttcactgt a                                     381

```

```

<210> 453
<211> 455
<212> DNA
<213> Homo sapiens

```

```

<400> 453
actgtgctaa acagcctata gccaaagtttt aaagagttac aggaacaact gctacacatt 60
caaagaacag gcattcactg cagcctcctg atttgacctg atgggaggga caggagaatg 120
agtcactctg ccaccacttt tcttgccctg gatttgtaga ggatttggtt tgctctaatt 180
tgtttttcct atatctgccc tactaaggta cacagtctgg gcactttgaa aatgttaaag 240
tttttaacgt ttgactgaca gaagcagcac ttaaaggctt catgaatcta ttttccaaaa 300
aaagtatgct ttcagtaaaa cattttacca ttttatctaa ctatgactg acatttttgt 360
tcttcctgaa aaggggattt atgctaacac tgtattttta atgtaaaaat atacgtgtag 420
agatatttta acttcctgag tgacttatac ctcaa                                     455

```

```

<210> 454
<211> 383
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> 9
<223> n = A,T,C or G

```

```

<400> 454
acagagcanc tttacaagtt gtcacatttc tttataaatt tttttaagc tacagttaa 60

```

```

tacaaaatga attgcggttt tattacatta ataacctttc acctcagggg tttatgaaga 120
ggaaaggggt ttatgcaaaa gaaagtgcga caattcctaa tcattttaga cacttttagga 180
gggggtgaag ttgtatgata aagcagatat tttaattatt tggtatcttt ttgtattgca 240
agaaatttct tgctagtga tcaagaaaac atccagattg acagtctaaa atggctactg 300
gtatttttagt taattcaaaa atgaaacttt tcagtgtatt actttactaa cattctattt 360
gagaaggcct attggtaaag ttt                                     383

```

```

<210> 455
<211> 383
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> 10
<223> n = A,T,C or G

```

```

<400> 455
actcctttan gacaaggaaa cagggtatcag catgatggta gcagaaacct tatcaccaag 60
gtgcaggagc tgactttctt caaagagttg tggttccggg cagcgggtcat tgccgtgccc 120
attgctggag ggctgatttt agtggttgctt attatggttg ccctgaggat gcttcgaagt 180
gaaaataaga ggctgcagga tcagcggcaa cagatgctct cccgtttgca ctacagcttt 240
cacggacacc attccaaaaa ggggcagggt gcaaagttag acttggaatg catggtgccc 300
gtcagtgggc acgagaactg ctgtctgacc tgtgataaaa tgagacaagc agacctcagc 360
aacgataaga tcctctcgct tgt                                     383

```

```

<210> 456
<211> 543
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> 64
<223> n = A,T,C or G

```

```

<400> 456
acaaacatth tacaaaaaag aacattacca atatcagtgg cagtaagggc aagctgaaga 60
atangtagac tgagttttccg ggcaatgtct gtctctcaaag acatccaaac tgcgttcagg 120
cagctgaaac aggcctcttt cccagtgaac agcatatgtg gtcagtaata caaacgatgg 180
taaatgaggc tactacatag gccaggttaa caaactcctc ttctcctcgg gtaggccatg 240
atacaagtgg aactcatcaa ataatttaaa cccaaggcga taacaacact atttcccatc 300
taaactcatt taagccttca caatgtcgca atggattcag ttacttgcaa acgatcccgg 360
gttgtcatac agatacttgt tttttacaca taacgtgtgt ccatcccttc cttcactgcc 420
ccagtcagggt ttctgttgtg tggaccgaaa ggggatacat tttagaaatg cttccctcaa 480
gacagaagtg agaaaagaaa gagaccctga ggccaggatc tattaacact ggtgtgtgcg 540
caa                                     543

```

```

<210> 457
<211> 544
<212> DNA
<213> Homo sapiens

```

```

<220>

```

<221> misc_feature
 <222> 17
 <223> n = A,T,C or G

<400> 457
 actggtgcca atattgncat ggtgagctcc tctctaattgt cttccagggc accaatatct 60
 gcccatgtca cattagggac agtgacaaaag ccttcccttt tggcagaggg ttggactgag 120
 gatagagcaa caatgaaatc attcagttca atgcacagtc cttgcatctg ctccctctgag 180
 aggggatctt ggtctcttag caaccccagc agcctttgta attcatcctg tgtttcagaa 240
 gtgggctcag ttcccagcct ttccctcctgg actccttttag atggcaaadc ttccatttca 300
 ggatttttct tctgctgttc ctgtagcttc attaagactc tattgactgc acacattgct 360
 gcctctcggc acagtgccat gagatcagca ccaacaaagc ctggagttag gtgtgctaag 420
 tgacagaaat caaaagcttg aggaagcctc agttttctgc acaatgtttg aagtattctt 480
 tccctggatg cttcatctgg gatacctagg catatttctc ggtcgaacct tcccgcacgt 540
 ctca 544

<210> 458
 <211> 382
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 5, 23
 <223> n = A,T,C or G

<400> 458
 acctntaggc tcaacggcag aancttcacc acaaaagcga aatgggcaca ccacagggag 60
 aaaactgggt gtccctggatg ttgaaaaagt tggtcgttgt catggtgtgt tacttcatcc 120
 tatctatcat taactccatg gcacaaagtt atgccaaacg aatccagcag cggttgaact 180
 cagaggagaa aactaaataa gtagagaaag ttttaactg cagaaattgg agtggatggg 240
 ttctgcctta aattggggag actccaagcc gggaaggaaa attccctttt ccaacctgta 300
 tcaattttta caactttttt cctgaaagca gtttagtcca tactttgcac tgacatactt 360
 tttccttctg tgctaaggta ag 382

<210> 459
 <211> 168
 <212> DNA
 <213> Homo sapiens

<400> 459
 ctcgactact agccaggcac gaaaccatga agtagcctga tccttcttag ccattcctggc 60
 cgcccttagcg gtagtaactt tgtgttatga atcacatgaa agcatggaat cttatgaact 120
 taatcccttc attaacagga gaaatgcaaa taccttcata tccccctca 168

<210> 460
 <211> 190
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 4
 <223> n = A,T,C or G

```
<210> 461
<211> 495
<212> DNA
<213> Homo sapiens
```

```
<210> 462
<211> 493
<212> DNA
<213> Homo sapiens
```

```
<400> 462
acactgaaac ataatccgc aagtcaccac acatacaaca cccggcagga aaaaaacaaa 60
aacaggngt ttacatgata cctgtaacag ccatggcttc aaactcagat gcttcctcca 120
tgtccaagt gtgttttgga tacagagcac atcgtggctt ctggggtcac actcagctta 180
ggctgtgggt ccacagagca ctcatctggc tgggctatgg tggtggtggc totactcaag 240
aagcaaagca gttaccagca cattcaaaca gtgtattgaa catcttttaa atatcaaagt 300
gagaaacaag aaggcaacat aataatgtta tcagaaagat gttaggaagt aaggacagct 360
gtgtaaagct tgaggctgaa aagtagcttg ccagcttcac ttctttgggt tcttggttag 420
tgggcgccgg aacagcaaga tgtgaggttc tggttcatgg atcatataat ggacccatcc 480
ctgactctgc tga                                     493
```

<400>	463					
tccgagctga	ttacagacac	caaggaagat	gctgtaaaga	gtcagcagcc	acagccctgg	60
ctagctggcc	ctgtgggcat	ttattagttaa	agttttaatg	acaaaagctt	tgagtcaaca	120
caccctggg	taattaacct	ggtcatcccc	accttgaga	gccatcctgc	ccatgggtga	180
tcaaagaagc	aacatctqca	ggaacacctg	atgaggtcgc	accttgqgcg	qaaagaacac	240

ctgacacagc	tgaagcttg	gtggaaaaaa	cacctgatga	ggctgcaccc	ttggtggaaa	300
gaacacctga	cacggctgaa	agcttggtgg	aaaaaacacc	tgatgaggct	gcatccttgg	360
tggaggggaa	atctgacaaa	attcaatggt	tggagaaagc	gacatctgga	aagttcgaac	420
agtcagcaga	agaaacacct	agggaaatta	cgagtcctgc	aaaagaaaca	tctgagaaat	480
ttacgtggcc	agcaaaagga	agacctagga	agatcgcatg	ggagaaaaaa	gaagacacac	540
ctagggaaat	tatgagtcce	gcaaaagaaa	catctgagaa	atttacgtgg	gcagcaaaag	600
gaagacctag	gaagatcgca	tgggagaaaa	aagaaacacc	tgtaaagact	ggatgcgtgg	660
caagagtaac	atctaataaa	actaaagttt	tggaaaaagg	aagatctaag	atgattgcat	720
gtcctacaaa	agaatcatct	acaaaagcaa	gtgccaatga	tcagagggttc	ccatcagaat	780
ccaaacaaga	ggaagatgaa	gaatattctt	gtgattctcg	gagtctcttt	gagagttctg	840
caaagattca	agtgtgtata	cctgagtcct	tatatcaaaa	agtaatggag	ataaatagag	900
aagtagaaga	gcctcctaag	aagccatctg	ccttcaagcc	tgccattgaa	atgcaaaact	960
ctgtttccaa	taaagccttt	gaattgaaga	atgaacaaac	attgagagca	gatccgatgt	1020
tcccaccaga	atccaaacaa	aaggactatg	aagaaaattc	ttgggattct	gagagtctct	1080
gtgagactgt	ttcacagaag	gatgtgtgtt	ctataaaaga	tggtcttctg	aaagaaatag	1140
ataaaataaa	tggaaaatta	gaagagtctc	cttagaatt	gaaggacatg	caaactttca	1200
gcggaatgaa	agtttctatt	ccaactaaag	ccttagaatt	gaaggacatg	caaactttca	1260
aagcagagcc	tccggggaag	ccatctgcct	tcgagcctgc	cactgaaatg	caaaagtctg	1320
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catcagaatc	caaacaaaag	gactatgaag	aaagttcttg	ggattctgag	agtctctgtg	1440
agactgtttc	acagaaggat	gtgtgtttac	ccaaggctrc	rcatcaaaaa	gaaatagata	1500
aaataaatgg	aaaattagaa	gggtctcctg	ttaaagatgg	tcttctgaag	gctaactgcg	1560
gaatgaaagt	ttctattcca	actaaagcct	tagaattgat	ggacatgcaa	actttcaaag	1620
cagagcctcc	cgagaagcca	tctgccttcg	agcctgccat	tgaaatgcaa	aagtctgttc	1680
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ctgtttcaca	gaaggatgtg	tgtttaccca	aggctrcrca	tcaaaaagaa	atagataaaa	1860
taaatggaaa	attagaagag	tctcctgata	atgatggttt	tctgaaggct	ccctgcagaa	1920
tgaaagtttc	tattccaact	aaagccttag	aattgatgga	catgcaaact	ttcaaagcag	1980
agcctcccga	gaagccatct	gccttcgagc	ctgccaattga	aatgcaaaaag	tctgttccaa	2040
ataaagcctt	ggaattgaag	aatgaacaaa	cattggagagc	agatcagatg	ttcccttcag	2100
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tttcacagaa	ggatgtgtgt	gtaccaagg	ctacacatca	aaaagaaatg	gataaaataa	2220
gtggaaaatt	agaagattca	actagcctat	caaaaatctt	ggatacagtt	cattcttgtg	2280
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agttagagaa	ccaaaaagtt	aaatgggaac	aagagctctg	cagtgtgagg	tttctcacac	2460
tcatgaaaat	gaaaattatc	tcttacatga	aaattgcatg	ttgaaaaagg	aaattgccat	2520
gctaaaactg	gaaatagcca	cactgaaaca	ccaataccag	gaaaaggaaa	ataaatactt	2580
tgaggacatt	aagattttta	aagaaaagaa	tgctgaactt	cagatgaccc	taaaactgaa	2640
agaggaatca	ttaactaaaa	gggcatctca	atatagtggg	cagcttaaaag	ttctgatagc	2700
tgagaacaca	atgctcactt	ctaaattgaa	ggaaaaacaa	gacaaaagaa	tactagaggc	2760
agaaattgaa	tcacaccatc	ctagactggc	ttctgctgta	caagaccatg	atcaaattgt	2820
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aaaaatgaat	gttgatgtga	gtagtacgat	atataacaat	gaggtgctcc	atcaaccact	2940
ttctgaagct	caaaggaaat	ccaaaagcct	aaaaattaat	ctcaattatg	cmggagatgc	3000
tctaagagaa	aatacattgg	tttcagaaca	tgacaaaaga	gaccaacgtg	aaacacagtg	3060
tcaaatgaag	gaagctgaac	acatgtatca	aaacgaacaa	gataatgtga	acaaacacac	3120
tgaacagcag	gagtctctag	atcagaaatt	atttcaacta	caaagcaaaa	atatgtggct	3180
tcaacagcaa	ttagttcatg	cacataagaa	agctgacaac	aaaagcaaga	taacaattga	3240
tattcatttt	cttgagagga	aaatgcaaca	tcatctccta	aaagagaaaa	atgaggagat	3300
atttaattac	aataaccatt	taaaaaacgg	tatatatcaa	tatgaaaaag	agaaagcaga	3360
aacagaaaac	tcatgagaga	caagcagtaa	gaaacttctt	ttggagaaac	aacagaccag	3420
atctttactc	acaactcatg	ctaggaggcc	agtcctagca	tcaccttatg	ttgaaaatct	3480

taccaatagt ctgtgtcaac agaatactta ttttagaaga aaaattcatg atttcttcct 3540
gaagcctaca gacataaaat aacagtgtga agaattactt gttcacgaat tgcataaagc 3600
tgcacaggat tcccatctac cctgatgatg cagcagacat cattcaatcc aaccagaatc 3660
tcgctctgtc actcaggctg g 3681

<210> 464

<211> 1424

<212> DNA

<213> Homo sapiens

<400> 464

tccgagctga ttacagacac caaggaagat gctgtaaaga gtcagcagcc acagccctgg 60
ctagctggcc ctgtgggcat ttattagtaa agttttaatg acaaaagctt tgagtcaaca 120
caccctggg taattaacct ggtcatcccc accctggaga gccatcctgc ccatgggtga 180
tcaaagaagg aacatctgca ggaacacctg atgaggctgc acccttggcg gaaagaacac 240
ctgacacagc tgaaagcttg gtggaaaaaa cacctgatga ggctgcaccc ttggtggaaa 300
gaacacctga cacggctgaa agcttgggtg aaaaaacacc tgatgaggct gcatccttgg 360
tggagggaac atctgacaaa attcaatgtt tggagaaagc gacatctgga aagttcgaac 420
agtcagcaga agaaacacct agggaaatta cgagtcctgc aaaagaaaca tctgagaaat 480
ttacgtggcc agcaaaagga agacctagga agatcgcatg ggagaaaaaa gaagacacac 540
ctagggaaat tatgagtccc gcaaaagaaa catctgagaa atttacgtgg gcagcaaaag 600
gaagacctag gaagatcgca tgggagaaaa aagaaacacc tgtaaagact ggatgcgtgg 660
caagagtaac atctaataaa actaaagttt tggaaaaagg aagatctaag atgattgcat 720
gtcctacaaa agaatcatct acaaaagcaa gtgccaatga tcagaggttc ccatcagaat 780
ccaaacaaga ggaagatgaa gaatatctt gtgattctcg gagtctctt gagagttctg 840
caaagattca agtgtgtata cctgagtcta tatatcaaaa agtaatggag ataaatagag 900
aagtagaaga gcctcctaag aagccatctg ctttcaagcc tgccattgaa atgcaaaact 960
ctgttccaaa taaagccttt gaattgaaga atgaacaaac attgagagca gatccgatgt 1020
tcccacaga atccaaacaa aaggactatg aagaaaattc ttgggattct gagagtctct 1080
gtgagactgt ttacagaag gatgtgtgtt tacccaaggc tacacatcaa aaagaaatag 1140
ataaaataaa tggaaaatta gaaggtaaga accgtttttt atttaaaat cagttgaccg 1200
aatattttct taaactgatg aggagggata tcctctagta gctgaagaaa attacctcct 1260
aatgcaaac catggaaaaa aagagaagtg caatggctgt aagttgtatg tctcatcagg 1320
tggtggcaac agactatatt gagagtgtctg aaaaggagct gaattattag tttgaattca 1380
agatattgca agacctgaga gaaaaaaaaa aaaaaaaaaa aaaa 1424

<210> 465

<211> 674

<212> DNA

<213> Homo sapiens

<400> 465

attccgagct gattacagac accaaggaag atgctgtaaa gagtacagcag ccacagccct 60
ggctagctgg ccctgtgggc atttattagt aaagttttaa tgacaaaagc tttgagtcaa 120
cacaccctg ggtaattaac ctggtcatcc ccaccctgga gagccatcct gcccatgggt 180
gatcaaaaga ggaacatctg caggaacacc tgatgaggct gcacccttgg cggaaagaac 240
acctgacaca gctgaaagct tgggtgaaaa aacacctgat gaggtgcac ccttgggtga 300
aagaacacct gacacggctg aaagcttggg gaaaaaaaca cctgatgagg ctgcatcctt 360
ggtggaggga acatctgaca aaattcaatg tttggagaaa gcgacatctg gaaagttcga 420
acagtcagca gaagaaacac ctagggaaat tacgagtcct gcaaaagaaa catctgagaa 480
atttacgtgg ccagcaaaag gaagacctag gaagatcgca tgggagaaaa aagatgactc 540
agttaaggca aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 600
aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 660
aaaaaaaaaa aaaa 674

<210> 466
 <211> 1729
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 11, 1128
 <223> n = A,T,C or G

<400> 466
 gaaagttcga ncagtcagca gaagaaacac ctagggaaat tacgagtcct gcaaaagaaa 60
 catctgagaa atttacgtgg ccagcaaaaag gaagacctag gaagatcgca tgggagaaaa 120
 aagaagacac acctagggaa attatgagtc ccgcaaaaaga aacatctgag aaatttacgt 180
 gggcagcaaa aggaagacct aggaagatcg catgggagaa aaaagaaaaca cctgtaaaaga 240
 ctggatgctg ggcaagagta acatctaata aaactaaagt ttgggaaaaa ggaagatcta 300
 agatgattgc atgtcctaca aaagaatcat ctacaaaagc aagtgccaat gatcagaggt 360
 tcccacatcaga atccaaacaa gaggaagatg aagaatattc ttgtgattct cggagtctct 420
 ttgagagttc tgcaaagatt caagtgtgta tacctgagtc tatatatcaa aaagtaatgg 480
 agataaatag agaagtagaa gagcctccta agaagccatc tgccctcaag cctgccattg 540
 aaatgcaaaa ctctgttcca aataaagcct ttgaattgaa gaatgaacaa acattgagag 600
 cagatccgat gttcccacca gaatccaaac aaaaggacta tgaagaaaat tcttgggatt 660
 ctgagagtct ctgtgagact gtttcacaga aggatgtgtg ttacccaag gctacacatc 720
 aaaaagaaat agataaaata aatggaaaat tagaagagtc tcctaataaa gatggctctt 780
 tgaaggctac ctgcggaatg aaagtttcta ttccaactaa agccttagaa ttgaaggaca 840
 tgcaaaacttt caaagcagag cctccgggga agccatctgc cttcgagcct gccactgaaa 900
 tgcaaaaagtc tgtcccaaat aaagccttgg aattgaaaaa tgaacaaaaca ttgagagcag 960
 atgagatact cccatcagaa tccaaacaaa aggactatga agaaaattct tgggatactg 1020
 agagtctctg tgagactggt tcacagaagg atgtgtgttt acccaaggct gcgcatcaaa 1080
 aagaaataga taaaataaat ggaaaattag aaaggtctcc tggtaaanat ggtcttctga 1140
 aggctaactg cggaatgaaa gtttctattc caactaaagc cttagaattg atggacatgc 1200
 aaactttcaa agcagagcct cccgagaagc catctgcctt cgagcctgcc attgaaatgc 1260
 aaaagtctgt tccaaataaa gccttggaat tgaagaatga acaaacattg agagcagatg 1320
 agatactccc atcagaatcc aaacaaaagg actatgaaga aagttcttgg gattctgaga 1380
 gtctctgtga gactgtttca cagaaggatg tgtgtttacc caaggctgcg catcaaaaag 1440
 aaatagataa aataaatgga aaattagaag gtaagaaccg ttttttattt aaaaatcatt 1500
 tgaccaataa tttctctaaa ttgatgagga aggatatcct ctagttagctg aagaaaatta 1560
 cctcctaata gcaaaccatg gaaaaaaaaga gaagtgcaat ggtcataagc tatgtgtctc 1620
 atcaggcatt ggcaacagac tatattgtga gtgctgaaga ggagctgaat tactagttta 1680
 aattcaagat attccaagac gtgaggaaaa tgagaaaaaa aaaaaaaaaa 1729

<210> 467
 <211> 1337
 <212> DNA
 <213> Homo sapiens

<400> 467
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 tgcaaaacttt caaagcagag cctcccgaga agccatctgc cttcgagcct gccattgaaa 180
 tgcaaaaagtc tgttccaaat aaagccttgg aattgaagaa tgaacaaaaca ttgagagcag 240
 atgagatact cccatcagaa tccaaacaaa aggactatga agaaagttct tgggattctg 300
 agagtctctg tgagactggt tcacagaagg atgtgtgttt acccaaggct gcgcatcaaa 360

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aagaaataga taaaataaat ggaaaattag aagagtctcc tgataatgat ggttttctga 420
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agatgttccc ttcagaatca aaacaaaaga aggttgaaga aaattcttgg gattctgaga 660
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aatggataa aataagtga aaattagaag attcaactag cctatcaaaa atcttgata 780
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aagaaataaa atcacagtta gagaaccaa agttaaattg ggaacaagag ctctgcagtg 960
tgagattgac tttaaaccaa gaagaagaga agagaagaaa tgccgatata ttaaataaaa 1020
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tgaaaaagga aattgccatg ctaaaactgg aaatagccac actgaaacac caataccagg 1260
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<210> 468

<211> 2307

<212> DNA

<213> Homo sapiens

<400> 468

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tggtcttctg aaggctaact gcggaatgaa agtttctatt ccaactaaaag ccttagaatt 240
gatggacatg caaactttca aagcagagcc tcccgagaag ccatctgcct tcgagcctgc 300
cattgaaatg caaaagtctg ttccaaataa agccttgga ttgaagaatg aacaaacatt 360
gagagcagat gagatactcc catcagaatc caacaaaag gactatgaag aaagtctctg 420
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ctaaaagaga aaaatgagga gatatttaat tacaataacc atttaaaaaa ccgtatatat 1980
caatatgaaa aagagaaagc agaaacagaa aactcatgag agacaagcag taagaaactt 2040
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<210> 469

<211> 650

<212> PRT

<213> Homo sapiens

<220>

<221> VARIANT

<222> 310, 429, 522

<223> Xaa = Any Amino Acid

<400> 469

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Gly Arg Pro Arg Lys Ile Ala Trp Glu Lys Lys Glu Thr Pro Val Lys
          20          25          30
Thr Gly Cys Val Ala Arg Val Thr Ser Asn Lys Thr Lys Val Leu Glu
          35          40          45
Lys Gly Arg Ser Lys Met Ile Ala Cys Pro Thr Lys Glu Ser Ser Thr
          50          55          60
Lys Ala Ser Ala Asn Asp Gln Arg Phe Pro Ser Glu Ser Lys Gln Glu
          65          70          75          80
Glu Asp Glu Glu Tyr Ser Cys Asp Ser Arg Ser Leu Phe Glu Ser Ser
          85          90          95
Ala Lys Ile Gln Val Cys Ile Pro Glu Ser Ile Tyr Gln Lys Val Met
          100          105          110
Glu Ile Asn Arg Glu Val Glu Glu Pro Pro Lys Lys Pro Ser Ala Phe
          115          120          125
Lys Pro Ala Ile Glu Met Gln Asn Ser Val Pro Asn Lys Ala Phe Glu
          130          135          140
Leu Lys Asn Glu Gln Thr Leu Arg Ala Asp Pro Met Phe Pro Pro Glu
          145          150          155          160
Ser Lys Gln Lys Asp Tyr Glu Glu Asn Ser Trp Asp Ser Glu Ser Leu
          165          170          175
Cys Glu Thr Val Ser Gln Lys Asp Val Cys Leu Pro Lys Ala Thr His
          180          185          190
Gln Lys Glu Ile Asp Lys Ile Asn Gly Lys Leu Glu Glu Ser Pro Asn
          195          200          205
Lys Asp Gly Leu Leu Lys Ala Thr Cys Gly Met Lys Val Ser Ile Pro
          210          215          220
Thr Lys Ala Leu Glu Leu Lys Asp Met Gln Thr Phe Lys Ala Glu Pro
          225          230          235          240
Pro Gly Lys Pro Ser Ala Phe Glu Pro Ala Thr Glu Met Gln Lys Ser
          245          250          255
Val Pro Asn Lys Ala Leu Glu Leu Lys Asn Glu Gln Thr Leu Arg Ala

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      260      265      270
Asp Glu Ile Leu Pro Ser Glu Ser Lys Gln Lys Asp Tyr Glu Glu Ser
      275      280      285
Ser Trp Asp Ser Glu Ser Leu Cys Glu Thr Val Ser Gln Lys Asp Val
      290      295      300
Cys Leu Pro Lys Ala Xaa His Gln Lys Glu Ile Asp Lys Ile Asn Gly
305      310      315      320
Lys Leu Glu Gly Ser Pro Val Lys Asp Gly Leu Leu Lys Ala Asn Cys
      325      330      335
Gly Met Lys Val Ser Ile Pro Thr Lys Ala Leu Glu Leu Met Asp Met
      340      345      350
Gln Thr Phe Lys Ala Glu Pro Pro Glu Lys Pro Ser Ala Phe Glu Pro
      355      360      365
Ala Ile Glu Met Gln Lys Ser Val Pro Asn Lys Ala Leu Glu Leu Lys
      370      375      380
Asn Glu Gln Thr Leu Arg Ala Asp Glu Ile Leu Pro Ser Glu Ser Lys
385      390      395      400
Gln Lys Asp Tyr Glu Glu Ser Ser Trp Asp Ser Glu Ser Leu Cys Glu
      405      410      415
Thr Val Ser Gln Lys Asp Val Cys Leu Pro Lys Ala Xaa His Gln Lys
      420      425      430
Glu Ile Asp Lys Ile Asn Gly Lys Leu Glu Glu Ser Pro Asp Asn Asp
      435      440      445
Gly Phe Leu Lys Ala Pro Cys Arg Met Lys Val Ser Ile Pro Thr Lys
      450      455      460
Ala Leu Glu Leu Met Asp Met Gln Thr Phe Lys Ala Glu Pro Pro Glu
465      470      475      480
Lys Pro Ser Ala Phe Glu Pro Ala Ile Glu Met Gln Lys Ser Val Pro
      485      490      495
Asn Lys Ala Leu Glu Leu Lys Asn Glu Gln Thr Leu Arg Ala Asp Gln
      500      505      510
Met Phe Pro Ser Glu Ser Lys Gln Lys Xaa Val Glu Glu Asn Ser Trp
      515      520      525
Asp Ser Glu Ser Leu Arg Glu Thr Val Ser Gln Lys Asp Val Cys Val
      530      535      540
Pro Lys Ala Thr His Gln Lys Glu Met Asp Lys Ile Ser Gly Lys Leu
545      550      555      560
Glu Asp Ser Thr Ser Leu Ser Lys Ile Leu Asp Thr Val His Ser Cys
      565      570      575
Glu Arg Ala Arg Glu Leu Gln Lys Asp His Cys Glu Gln Arg Thr Gly
      580      585      590
Lys Met Glu Gln Met Lys Lys Lys Phe Cys Val Leu Lys Lys Lys Leu
      595      600      605
Ser Glu Ala Lys Glu Ile Lys Ser Gln Leu Glu Asn Gln Lys Val Lys
      610      615      620
Trp Glu Gln Glu Leu Cys Ser Val Arg Phe Leu Thr Leu Met Lys Met
625      630      635      640
Lys Ile Ile Ser Tyr Met Lys Ile Ala Cys
      645      650

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<210> 470

<211> 228

<212> PRT

1003663.D
 20070920

<213> Homo sapiens

<400> 470

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Met Ser Pro Ala Lys Glu Thr Ser Glu Lys Phe Thr Trp Ala Ala Lys
 1          5          10          15
Gly Arg Pro Arg Lys Ile Ala Trp Glu Lys Lys Glu Thr Pro Val Lys
          20          25          30
Thr Gly Cys Val Ala Arg Val Thr Ser Asn Lys Thr Lys Val Leu Glu
          35          40          45
Lys Gly Arg Ser Lys Met Ile Ala Cys Pro Thr Lys Glu Ser Ser Thr
          50          55          60
Lys Ala Ser Ala Asn Asp Gln Arg Phe Pro Ser Glu Ser Lys Gln Glu
65          70          75          80
Glu Asp Glu Glu Tyr Ser Cys Asp Ser Arg Ser Leu Phe Glu Ser Ser
          85          90          95
Ala Lys Ile Gln Val Cys Ile Pro Glu Ser Ile Tyr Gln Lys Val Met
          100          105          110
Glu Ile Asn Arg Glu Val Glu Glu Pro Pro Lys Lys Pro Ser Ala Phe
          115          120          125
Lys Pro Ala Ile Glu Met Gln Asn Ser Val Pro Asn Lys Ala Phe Glu
          130          135          140
Leu Lys Asn Glu Gln Thr Leu Arg Ala Asp Pro Met Phe Pro Pro Glu
145          150          155          160
Ser Lys Gln Lys Asp Tyr Glu Glu Asn Ser Trp Asp Ser Glu Ser Leu
          165          170          175
Cys Glu Thr Val Ser Gln Lys Asp Val Cys Leu Pro Lys Ala Thr His
          180          185          190
Gln Lys Glu Ile Asp Lys Ile Asn Gly Lys Leu Glu Gly Lys Asn Arg
          195          200          205
Phe Leu Phe Lys Asn Gln Leu Thr Glu Tyr Phe Ser Lys Leu Met Arg
          210          215          220
Arg Asp Ile Leu
225

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<210> 471

<211> 154

<212> PRT

<213> Homo sapiens

<220>

<221> VARIANT

<222> 148

<223> Xaa = Any Amino Acid

<400> 471

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Met Arg Leu His Pro Trp Arg Lys Glu His Leu Thr Gln Leu Lys Ala
 1          5          10          15
Trp Trp Lys Lys His Leu Met Arg Leu His Pro Trp Trp Lys Glu His
          20          25          30
Leu Thr Arg Leu Lys Ala Trp Trp Lys Lys His Leu Met Arg Leu His
          35          40          45
Pro Trp Trp Arg Glu His Leu Thr Lys Phe Asn Val Trp Arg Lys Arg
          50          55          60

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<210> 472
<211> 466
<212> PRT
<213> Homo sapiens

<220>
<221> VARIANT
<222> 329
<223> Xaa = Any Amino Acid
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<400> 472																
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Gly	Arg	Pro	Arg	Lys	Ile	Ala	Trp	Glu	Lys	Lys	Glu	Thr	Pro	Val	Lys	
			20					25					30			
Thr	Gly	Cys	Val	Ala	Arg	Val	Thr	Ser	Asn	Lys	Thr	Lys	Val	Leu	Glu	
		35				40					45					
Lys	Gly	Arg	Ser	Lys	Met	Ile	Ala	Cys	Pro	Thr	Lys	Glu	Ser	Ser	Thr	
	50				55					60						
Lys	Ala	Ser	Ala	Asn	Asp	Gln	Arg	Phe	Pro	Ser	Glu	Ser	Lys	Gln	Glu	
65					70				75					80		
Glu	Asp	Glu	Glu	Tyr	Ser	Cys	Asp	Ser	Arg	Ser	Leu	Phe	Glu	Ser	Ser	
				85				90					95			
Ala	Lys	Ile	Gln	Val	Cys	Ile	Pro	Glu	Ser	Ile	Tyr	Gln	Lys	Val	Met	
			100					105					110			
Glu	Ile	Asn	Arg	Glu	Val	Glu	Glu	Pro	Pro	Lys	Lys	Pro	Ser	Ala	Phe	
		115				120						125				
Lys	Pro	Ala	Ile	Glu	Met	Gln	Asn	Ser	Val	Pro	Asn	Lys	Ala	Phe	Glu	
	130					135				140						
Leu	Lys	Asn	Glu	Gln	Thr	Leu	Arg	Ala	Asp	Pro	Met	Phe	Pro	Pro	Glu	
145					150					155				160		
Ser	Lys	Gln	Lys	Asp	Tyr	Glu	Glu	Asn	Ser	Trp	Asp	Ser	Glu	Ser	Leu	
				165				170					175			
Cys	Glu	Thr	Val	Ser	Gln	Lys	Asp	Val	Cys	Leu	Pro	Lys	Ala	Thr	His	
			180					185					190			
Gln	Lys	Glu	Ile	Asp	Lys	Ile	Asn	Gly	Lys	Leu	Glu	Glu	Ser	Pro	Asn	
		195				200					205					
Lys	Asp	Gly	Leu	Leu	Lys	Ala	Thr	Cys	Gly	Met	Lys	Val	Ser	Ile	Pro	
	210					215					220					
Thr	Lys	Ala	Leu	Glu	Leu	Lys	Asp	Met	Gln	Thr	Phe	Lys	Ala	Glu	Pro	

225 230 235 240
 Pro Gly Lys Pro Ser Ala Phe Glu Pro Ala Thr Glu Met Gln Lys Ser
 245 250 255
 Val Pro Asn Lys Ala Leu Glu Leu Lys Asn Glu Gln Thr Leu Arg Ala
 260 265 270
 Asp Glu Ile Leu Pro Ser Glu Ser Lys Gln Lys Asp Tyr Glu Glu Asn
 275 280 285
 Ser Trp Asp Thr Glu Ser Leu Cys Glu Thr Val Ser Gln Lys Asp Val
 290 295 300
 Cys Leu Pro Lys Ala Ala His Gln Lys Glu Ile Asp Lys Ile Asn Gly
 305 310 315 320
 Lys Leu Glu Gly Ser Pro Gly Lys Xaa Gly Leu Leu Lys Ala Asn Cys
 325 330 335
 Gly Met Lys Val Ser Ile Pro Thr Lys Ala Leu Glu Leu Met Asp Met
 340 345 350
 Gln Thr Phe Lys Ala Glu Pro Pro Glu Lys Pro Ser Ala Phe Glu Pro
 355 360 365
 Ala Ile Glu Met Gln Lys Ser Val Pro Asn Lys Ala Leu Glu Leu Lys
 370 375 380
 Asn Glu Gln Thr Leu Arg Ala Asp Glu Ile Leu Pro Ser Glu Ser Lys
 385 390 395 400
 Gln Lys Asp Tyr Glu Glu Ser Ser Trp Asp Ser Glu Ser Leu Cys Glu
 405 410 415
 Thr Val Ser Gln Lys Asp Val Cys Leu Pro Lys Ala Ala His Gln Lys
 420 425 430
 Glu Ile Asp Lys Ile Asn Gly Lys Leu Glu Gly Lys Asn Arg Phe Leu
 435 440 445
 Phe Lys Asn His Leu Thr Lys Tyr Phe Ser Lys Leu Met Arg Lys Asp
 450 455 460
 Ile Leu
 465

<210> 473
 <211> 445
 <212> PRT
 <213> Homo sapiens

<400> 473
 Lys Glu Ile Asp Lys Ile Asn Gly Lys Leu Glu Gly Ser Pro Val Lys
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 Asp Gly Leu Leu Lys Ala Asn Cys Gly Met Lys Val Ser Ile Pro Thr
 20 25 30
 Lys Ala Leu Glu Leu Met Asp Met Gln Thr Phe Lys Ala Glu Pro Pro
 35 40 45
 Glu Lys Pro Ser Ala Phe Glu Pro Ala Ile Glu Met Gln Lys Ser Val
 50 55 60
 Pro Asn Lys Ala Leu Glu Leu Lys Asn Glu Gln Thr Leu Arg Ala Asp
 65 70 75 80
 Glu Ile Leu Pro Ser Glu Ser Lys Gln Lys Asp Tyr Glu Glu Ser Ser
 85 90 95
 Trp Asp Ser Glu Ser Leu Cys Glu Thr Val Ser Gln Lys Asp Val Cys
 100 105 110
 Leu Pro Lys Ala Ala His Gln Lys Glu Ile Asp Lys Ile Asn Gly Lys

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<210> 474
<211> 3865
<212> DNA
<213> Homo sapiens
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<400> 474						
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cacccgtggg	taattaacct	ggtcaccccc	accctggaga	gccatcctgc	ccatgggtga	180
tcaaagaagc	aacatctgca	ggaacacctg	atgagctgtc	acccttggcg	gaaagaacac	240
ctgacacagc	tgaagccttg	tgggaaaaaa	cacctgatga	ggctgcaccc	ttggtggaaa	300

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agtcagcaga agaaacacct agggaaatta cgagtcctgc aaaagaaaca tctgagaaat 480
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acactgaaca gcaggagtct ctagatcaga aattatttca actacaaagc aaaaatatgt 3360
ggcttcaaca gcaattagtt catgcacata agaaagctga caacaaaagc aagataacaa 3420
ttgatattca ttttcttgag aggaaaatgc aacatcatct cctaaaagag aaaaatgagg 3480
agatatttaa ttacaataac catttaaaaa accgtatata tcaatatgaa aaagagaaag 3540

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cagaaacaga aaactcatga gagacaagca gtaagaaact tcttttggag aaacaacaga 3600
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tcctgaagcc tacagacata aaataacagt gtgaagaatt acttggtcac gaattgcata 3780
aagctgcaca ggattcccat ctaccctgat gatgcagcag acatcattca atccaaccag 3840
aatctcgctc tgtcactcag gctgg                                     3865

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<210> 475
<211> 1002
<212> PRT
<213> Homo sapiens

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<220>
<221> VARIANT
<222> 310, 429, 522
<223> Xaa = Any Amino Acid

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<400> 475
Met Ser Pro Ala Lys Glu Thr Ser Glu Lys Phe Thr Trp Ala Ala Lys
 1          5          10          15
Gly Arg Pro Arg Lys Ile Ala Trp Glu Lys Lys Glu Thr Pro Val Lys
          20          25          30
Thr Gly Cys Val Ala Arg Val Thr Ser Asn Lys Thr Lys Val Leu Glu
          35          40          45
Lys Gly Arg Ser Lys Met Ile Ala Cys Pro Thr Lys Glu Ser Ser Thr
          50          55          60
Lys Ala Ser Ala Asn Asp Gln Arg Phe Pro Ser Glu Ser Lys Gln Glu
65          70          75          80
Glu Asp Glu Glu Tyr Ser Cys Asp Ser Arg Ser Leu Phe Glu Ser Ser
          85          90          95
Ala Lys Ile Gln Val Cys Ile Pro Glu Ser Ile Tyr Gln Lys Val Met
          100          105          110
Glu Ile Asn Arg Glu Val Glu Glu Pro Pro Lys Lys Pro Ser Ala Phe
          115          120          125
Lys Pro Ala Ile Glu Met Gln Asn Ser Val Pro Asn Lys Ala Phe Glu
          130          135          140
Leu Lys Asn Glu Gln Thr Leu Arg Ala Asp Pro Met Phe Pro Pro Glu
          145          150          155          160
Ser Lys Gln Lys Asp Tyr Glu Glu Asn Ser Trp Asp Ser Glu Ser Leu
          165          170          175
Cys Glu Thr Val Ser Gln Lys Asp Val Cys Leu Pro Lys Ala Thr His
          180          185          190
Gln Lys Glu Ile Asp Lys Ile Asn Gly Lys Leu Glu Glu Ser Pro Asn
          195          200          205
Lys Asp Gly Leu Leu Lys Ala Thr Cys Gly Met Lys Val Ser Ile Pro
          210          215          220
Thr Lys Ala Leu Glu Leu Lys Asp Met Gln Thr Phe Lys Ala Glu Pro
          225          230          235          240
Pro Gly Lys Pro Ser Ala Phe Glu Pro Ala Thr Glu Met Gln Lys Ser
          245          250          255
Val Pro Asn Lys Ala Leu Glu Leu Lys Asn Glu Gln Thr Leu Arg Ala
          260          265          270
Asp Glu Ile Leu Pro Ser Glu Ser Lys Gln Lys Asp Tyr Glu Glu Ser
          275          280          285

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Ser	Trp	Asp	Ser	Glu	Ser	Leu	Cys	Glu	Thr	Val	Ser	Gln	Lys	Asp	Val
290						295					300				
Cys	Leu	Pro	Lys	Ala	Xaa	His	Gln	Lys	Glu	Ile	Asp	Lys	Ile	Asn	Gly
305					310					315					320
Lys	Leu	Glu	Gly	Ser	Pro	Val	Lys	Asp	Gly	Leu	Leu	Lys	Ala	Asn	Cys
				325					330					335	
Gly	Met	Lys	Val	Ser	Ile	Pro	Thr	Lys	Ala	Leu	Glu	Leu	Met	Asp	Met
			340					345					350		
Gln	Thr	Phe	Lys	Ala	Glu	Pro	Pro	Glu	Lys	Pro	Ser	Ala	Phe	Glu	Pro
		355					360					365			
Ala	Ile	Glu	Met	Gln	Lys	Ser	Val	Pro	Asn	Lys	Ala	Leu	Glu	Leu	Lys
	370					375					380				
Asn	Glu	Gln	Thr	Leu	Arg	Ala	Asp	Glu	Ile	Leu	Pro	Ser	Glu	Ser	Lys
385					390					395					400
Gln	Lys	Asp	Tyr	Glu	Glu	Ser	Ser	Trp	Asp	Ser	Glu	Ser	Leu	Cys	Glu
				405					410					415	
Thr	Val	Ser	Gln	Lys	Asp	Val	Cys	Leu	Pro	Lys	Ala	Xaa	His	Gln	Lys
			420					425					430		
Glu	Ile	Asp	Lys	Ile	Asn	Gly	Lys	Leu	Glu	Glu	Ser	Pro	Asp	Asn	Asp
		435					440					445			
Gly	Phe	Leu	Lys	Ala	Pro	Cys	Arg	Met	Lys	Val	Ser	Ile	Pro	Thr	Lys
	450					455					460				
Ala	Leu	Glu	Leu	Met	Asp	Met	Gln	Thr	Phe	Lys	Ala	Glu	Pro	Pro	Glu
465					470					475					480
Lys	Pro	Ser	Ala	Phe	Glu	Pro	Ala	Ile	Glu	Met	Gln	Lys	Ser	Val	Pro
				485					490					495	
Asn	Lys	Ala	Leu	Glu	Leu	Lys	Asn	Glu	Gln	Thr	Leu	Arg	Ala	Asp	Gln
			500					505					510		
Met	Phe	Pro	Ser	Glu	Ser	Lys	Gln	Lys	Xaa	Val	Glu	Glu	Asn	Ser	Trp
		515					520					525			
Asp	Ser	Glu	Ser	Leu	Arg	Glu	Thr	Val	Ser	Gln	Lys	Asp	Val	Cys	Val
	530					535					540				
Pro	Lys	Ala	Thr	His	Gln	Lys	Glu	Met	Asp	Lys	Ile	Ser	Gly	Lys	Leu
545					550					555					560
Glu	Asp	Ser	Thr	Ser	Leu	Ser	Lys	Ile	Leu	Asp	Thr	Val	His	Ser	Cys
				565					570					575	
Glu	Arg	Ala	Arg	Glu	Leu	Gln	Lys	Asp	His	Cys	Glu	Gln	Arg	Thr	Gly
			580					585					590		
Lys	Met	Glu	Gln	Met	Lys	Lys	Lys	Phe	Cys	Val	Leu	Lys	Lys	Lys	Leu
		595					600					605			
Ser	Glu	Ala	Lys	Glu	Ile	Lys	Ser	Gln	Leu	Glu	Asn	Gln	Lys	Val	Lys
	610					615					620				
Trp	Glu	Gln	Glu	Leu	Cys	Ser	Val	Arg	Leu	Thr	Leu	Asn	Gln	Glu	Glu
625					630					635					640
Glu	Lys	Arg	Arg	As											

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<210> 476
<211> 356
<212> DNA
<213> Homo sapiens
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<210>	477
<211>	1876
<212>	DNA

<213> Homo sapiens

<400> 477

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ctcaccgggg gcttcggcag ccacagcgtg tgcggaggct ttcggggccg ctccctgcgga 180
cgcagcttcg gctaccgctc cgggggcggtg tgcggggcca gtcccccattg catcaccacc 240
gtgtcgggtca acgagagcct cctcacgccc ctcaacctgg agatcgaccc caacgcgcag 300
tgcgtgaagc aggaggagaa ggagcagatc aagtcacctca acagcagggt cgcggccttc 360
atcgacaagg tgcgttcctt ggagcagcag aacaaactgc tggagacaaa gctgcagttc 420
taccagaacc gcgagtgttg ccagagcaac ctggagcccc tgtttgaggg ctacatcgag 480
actctgcggc gggaggccga gtgcgtggag gccgacagcg ggaggctggc ctcagagctt 540
aaccacgtgc aggaggtgct ggagggtac aagaagaagt atgaggagga ggtttctctg 600
agagcaacag ctgagaacga gtttgtggct ctgaagaagg atgtggactg cgcctacctc 660
cgcaagtcat acctggaggc caacgtggag gccctgatcc aggagatcga cttcctgagg 720
cggctgtatg aggaggatg ccgcattctc cagtcgcaca tctcagacac ctccgtggtt 780
gtcaagctgg acaacagccg ggacctgaac atggactgca tcattgccga gattaaggca 840
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tgtgaggaga tgaaggccac ggtgatcagg cacggggaga ccctgcgccg caccaaggag 960
gagatcaatg agctgaaccg catgatccaa aggtgacgg ccgaggtgga gaatgccaag 1020
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ctcagtgatg cccgctgcaa gctggccgag ctggaggggc ccctgcagaa ggccaagcag 1140
gacatggcct gcctgatcag ggagtaccag gaggtgatga actccaagct gggcctggac 1200
atcgagatcg ccacctacag gcgcctgctg gagggcgagg agcagaggct atgtgaaggc 1260
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gtggcggtga gcaccggcct gtgtgcgccc tgcggccaat tgaacaccac ctgcggaggg 1440
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cactttgaaa gacccctccc actcctggcc tcacatttct ctgtgtgatc cccacttct 1680
gggctctgcc accccacagt gggaaaggcc accctagaaa gaagtccgct ggcaccata 1740
ggaagggggc tcaggagcag gaagggccag gaccagaacc ttgcccacgg caactgcctt 1800
cctgcctctc cccttctctc tctgctcttg atctgtgttt caataaatta atgtagccaa 1860
aaaaaaaaa aaaaaa 1876

```

<210> 478

<211> 505

<212> PRT

<213> Homo sapiens

<400> 478

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Met Thr Cys Gly Ser Gly Phe Gly Gly Arg Ala Phe Ser Cys Ile Ser
 1           5           10           15
Ala Cys Gly Pro Arg Pro Gly Arg Cys Cys Ile Thr Ala Ala Pro Tyr
      20           25           30
Arg Gly Ile Ser Cys Tyr Arg Gly Leu Thr Gly Gly Phe Gly Ser His
      35           40           45
Ser Val Cys Gly Gly Phe Arg Ala Gly Ser Cys Gly Arg Ser Phe Gly
      50           55           60
Tyr Arg Ser Gly Gly Val Cys Gly Pro Ser Pro Pro Cys Ile Thr Thr
      65           70           75           80
Val Ser Val Asn Glu Ser Leu Leu Thr Pro Leu Asn Leu Glu Ile Asp
      85           90           95

```

Pro Asn Ala Gln Cys Val Lys Gln Glu Glu Lys Glu Gln Ile Lys Ser
 100 105 110
 Leu Asn Ser Arg Phe Ala Ala Phe Ile Asp Lys Val Arg Phe Leu Glu
 115 120 125
 Gln Gln Asn Lys Leu Leu Glu Thr Lys Leu Gln Phe Tyr Gln Asn Arg
 130 135 140
 Glu Cys Cys Gln Ser Asn Leu Glu Pro Leu Phe Glu Gly Tyr Ile Glu
 145 150 155 160
 Thr Leu Arg Arg Glu Ala Glu Cys Val Glu Ala Asp Ser Gly Arg Leu
 165 170 175
 Ala Ser Glu Leu Asn His Val Gln Glu Val Leu Glu Gly Tyr Lys Lys
 180 185 190
 Lys Tyr Glu Glu Glu Val Ser Leu Arg Ala Thr Ala Glu Asn Glu Phe
 195 200 205
 Val Ala Leu Lys Lys Asp Val Asp Cys Ala Tyr Leu Arg Lys Ser Asp
 210 215 220
 Leu Glu Ala Asn Val Glu Ala Leu Ile Gln Glu Ile Asp Phe Leu Arg
 225 230 235 240
 Arg Leu Tyr Glu Glu Glu Ile Arg Ile Leu Gln Ser His Ile Ser Asp
 245 250 255
 Thr Ser Val Val Val Lys Leu Asp Asn Ser Arg Asp Leu Asn Met Asp
 260 265 270
 Cys Ile Ile Ala Glu Ile Lys Ala Gln Tyr Asp Asp Ile Val Thr Arg
 275 280 285
 Ser Arg Ala Glu Ala Glu Ser Trp Tyr Arg Ser Lys Cys Glu Glu Met
 290 295 300
 Lys Ala Thr Val Ile Arg His Gly Glu Thr Leu Arg Arg Thr Lys Glu
 305 310 315 320
 Glu Ile Asn Glu Leu Asn Arg Met Ile Gln Arg Leu Thr Ala Glu Val
 325 330 335
 Glu Asn Ala Lys Cys Gln Asn Ser Lys Leu Glu Ala Ala Val Ala Gln
 340 345 350
 Ser Glu Gln Gln Gly Glu Ala Ala Leu Ser Asp Ala Arg Cys Lys Leu
 355 360 365
 Ala Glu Leu Glu Gly Ala Leu Gln Lys Ala Lys Gln Asp Met Ala Cys
 370 375 380
 Leu Ile Arg Glu Tyr Gln Glu Val Met Asn Ser Lys Leu Gly Leu Asp
 385 390 395 400
 Ile Glu Ile Ala Thr Tyr Arg Arg Leu Leu Glu Gly Glu Glu Gln Arg
 405 410 415
 Leu Cys Glu Gly Ile Gly Ala Val Asn Val Cys Val Ser Ser Ser Arg
 420 425 430
 Gly Gly Val Val Cys Gly Asp Leu Cys Val Ser Gly Ser Arg Pro Val
 435 440 445
 Thr Gly Ser Val Cys Ser Ala Pro Cys Asn Gly Asn Val Ala Val Ser
 450 455 460
 Thr Gly Leu Cys Ala Pro Cys Gly Gln Leu Asn Thr Thr Cys Gly Gly
 465 470 475 480
 Gly Ser Cys Gly Val Gly Ser Cys Gly Ile Ser Ser Leu Gly Val Gly
 485 490 495
 Ser Cys Gly Ser Ser Cys Arg Lys Cys
 500 505

<210> 479
 <211> 221
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 22
 <223> n = A,T,C or G

<400> 479
 ggtccattcc tttcctcgcg tnggggtttc tctgtgtcag cgagcctcgg tacactgatt 60
 tccgatcaaa agaatcatca tctttacctt gacttttcag ggaattactg aactttcttc 120
 tcagaagata gggcacagcc attgccttgg ctcacttga aggggtctgca tttgggtcct 180
 ctggtctctt gccaaagttc ccagccactc gagggagaaa t 221

<210> 480
 <211> 36
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> PCR primer

<400> 480
 cggcgaattc accatgggaa caagagctct gcagtg 36

<210> 481
 <211> 62
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> PCR primer

<400> 481
 cggcaagctt ttaatggtga tggatgatgat gtataacttc tgtttctgct ttctcttttt 60
 ca 62

<210> 482
 <211> 972
 <212> DNA
 <213> Homo sapiens

<400> 482
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 ttacatgaaa attgcatggt gaaaaaggaa attgccatgc taaaactgga aatagccaca 120
 ctgaaacacc aataccagga aaaggaaaat aaatactttg aggacattaa gattttaaaa 180
 gaaaagaatg ctgaacttca gatgacccta aaactgaaag aggaatcatt aactaaaagg 240
 gcatctcaat atagtgggca gcttaaagtt ctgatagctg agaacacaat gctcacttct 300
 aaattgaagg aaaaacaaga caaagaaata ctagaggcag aaattgaatc acaccatcct 360
 agactggctt ctgctgtaca agaccatgat caaattgtga catcaagaaa aagtcaagaa 420
 cctgcttttc acattgcagg agatgcttgt ttgcaaagaa aaatgaatgt tgatgtgagt 480
 agtacgatat ataacaatga ggtgctccat caaccacttt ctgaagctca aaggaaatcc 540

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aaaagcctaa aaattaatct caattatgcc ggagatgctc taagagaaaa tacattgggtt 600
tcagaacatg cacaaagaga ccaacgtgaa acacagtgtc aaatgaagga agctgaacac 660
atgtatcaaa acgaacaaga taatgtgaac aaacacactg aacagcagga gtctctagat 720
cagaaattat ttcaactaca aagcaaaaat atgtggcttc aacagcaatt agttcatgca 780
cataagaaag ctgacaacaa aagcaagata acaattgata ttcattttct tgagaggaaa 840
atgcaacatc atctcctaaa agagaaaaat gaggagatat ttaattacaa taaccattta 900
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<210> 483

<211> 323

<212> PRT

<213> Homo sapiens

<400> 483

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Met Gly Thr Arg Ala Leu Gln Cys Glu Val Ser His Thr His Glu Asn
 1           5           10           15
Glu Asn Tyr Leu Leu His Glu Asn Cys Met Leu Lys Lys Glu Ile Ala
          20           25           30
Met Leu Lys Leu Glu Ile Ala Thr Leu Lys His Gln Tyr Gln Glu Lys
          35           40           45
Glu Asn Lys Tyr Phe Glu Asp Ile Lys Ile Leu Lys Glu Lys Asn Ala
          50           55           60
Glu Leu Gln Met Thr Leu Lys Leu Lys Glu Glu Ser Leu Thr Lys Arg
65           70           75           80
Ala Ser Gln Tyr Ser Gly Gln Leu Lys Val Leu Ile Ala Glu Asn Thr
          85           90           95
Met Leu Thr Ser Lys Leu Lys Glu Lys Gln Asp Lys Glu Ile Leu Glu
          100          105          110
Ala Glu Ile Glu Ser His His Pro Arg Leu Ala Ser Ala Val Gln Asp
          115          120          125
His Asp Gln Ile Val Thr Ser Arg Lys Ser Gln Glu Pro Ala Phe His
          130          135          140
Ile Ala Gly Asp Ala Cys Leu Gln Arg Lys Met Asn Val Asp Val Ser
          145          150          155          160
Ser Thr Ile Tyr Asn Asn Glu Val Leu His Gln Pro Leu Ser Glu Ala
          165          170          175
Gln Arg Lys Ser Lys Ser Leu Lys Ile Asn Leu Asn Tyr Ala Gly Asp
          180          185          190
Ala Leu Arg Glu Asn Thr Leu Val Ser Glu His Ala Gln Arg Asp Gln
          195          200          205
Arg Glu Thr Gln Cys Gln Met Lys Glu Ala Glu His Met Tyr Gln Asn
          210          215          220
Glu Gln Asp Asn Val Asn Lys His Thr Glu Gln Glu Ser Leu Asp
          225          230          235          240
Gln Lys Leu Phe Gln Leu Gln Ser Lys Asn Met Trp Leu Gln Gln Gln
          245          250          255
Leu Val His Ala His Lys Lys Ala Asp Asn Lys Ser Lys Ile Thr Ile
          260          265          270
Asp Ile His Phe Leu Glu Arg Lys Met Gln His His Leu Leu Lys Glu
          275          280          285
Lys Asn Glu Glu Ile Phe Asn Tyr Asn Asn His Leu Lys Asn Arg Ile
          290          295          300
Tyr Gln Tyr Glu Lys Glu Lys Ala Glu Thr Glu Val Ile His His His

```

305
His His His

310

315

320

<210> 484
<211> 1518
<212> DNA
<213> Homo sapiens

<400> 484
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ctcaccgggg gcttcggcag ccacagcgtg tgcggaggct ttcgggcccgg ctctctgcga 180
cgcagcttcg gctaccgctc cggggggcgtg tgcgggcccga gtcccccattg catcaccacc 240
gtgtcgggtca acgagagcct cctcacgccc ctcaacctgg agatcgaccc caacgcgcag 300
tgcgtgaagc aggaggagaa ggagcagatc aagtcacctca acagcagggtt cgcggccttc 360
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taccagaacc gcgagtgttg ccagagcaac ctggagcccc tgtttgaggg ctacatcgag 480
actctgcggc gggaggccga gtgcgtggag gccgacagcg ggaggctggc ctacagagctt 540
aaccacgtgc aggaggtgct ggagggctac aagaagaagt atgaggagga ggtttctctg 600
agagcaacag ctgagaacga gtttgtggct ctgaagaagg atgtggactg cgcctacctc 660
cgcaagtcag acctggaggc caacgtggag gccctgatcc aggagatcga ctctctgagg 720
cggctgtatg aggaggagat ccgcattctc cagtcgcaca tctcagacac ctccgtgggt 780
gtcaagctgg acaacagccg ggacctgaac atggactgca tcattgccga gattaaggca 840
cagtatgacg acattgtcac ccgcagcccg gccgaggccg agtcctggta ccgcagcaag 900
tgtgaggaga tgaaggccac ggtgatcagg cacggggaga ccctgcgccg caccaaggag 960
gagatcaatg agctgaaccg catgatccaa aggtgacagg ccgagggtga gaatgccaag 1020
tgccagaact ccaagctgga ggccgcgggtg gccagctctg agcagcaggg tgaggcagcc 1080
ctcagtgatg cccgctgcaa gctggccgag ctggaggggc ccctgcagaa ggccaagcag 1140
gacatggcct gcctgatcag ggagtaccag gagtgatga actccaagct gggcctggag 1200
atcgagatcg ccacctacag gcgcctgctg gagggcgagg agcagaggct atgtgaaggc 1260
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tgogtgtcag gctcccggcc agtgactggc agtgtctgca gcgctccgtg caacgggaac 1380
gtggcggtga gcaccggcct gtgtgcgcc tgcggccaat tgaacaccac ctgcggaggg 1440
ggttctctgc gctggggctc ctgtggtatc agctccctgg gtgtggggtc ttgcggcagc 1500
agctgccgga aatgttag 1518

<210> 485
<211> 505
<212> PRT
<213> Homo sapiens

<400> 485
Met Thr Cys Gly Ser Gly Phe Gly Gly Arg Ala Phe Arg Cys Ile Ser
1 5 10 15
Ala Cys Gly Pro Arg Pro Gly Arg Cys Ile Thr Ala Ala Pro Tyr
20 25 30
Arg Gly Ile Ser Cys Tyr Arg Gly Leu Thr Gly Gly Phe Gly Ser His
35 40 45
Ser Val Cys Gly Gly Phe Arg Ala Gly Ser Cys Gly Arg Ser Phe Gly
50 55 60
Tyr Arg Ser Gly Gly Val Cys Gly Pro Ser Pro Pro Cys Ile Thr Thr
65 70 75 80

Val Ser Val Asn Glu Ser Leu Leu Thr Pro Leu Asn Leu Glu Ile Asp
 85 90 95
 Pro Asn Ala Gln Cys Val Lys Gln Glu Glu Lys Glu Gln Ile Lys Ser
 100 105 110
 Leu Asn Ser Arg Phe Ala Ala Phe Ile Asp Lys Val Arg Phe Leu Glu
 115 120 125
 Gln Gln Asn Lys Leu Leu Glu Thr Lys Leu Gln Phe Tyr Gln Asn Arg
 130 135 140
 Glu Cys Cys Gln Ser Asn Leu Glu Pro Leu Phe Glu Gly Tyr Ile Glu
 145 150 155 160
 Thr Leu Arg Arg Glu Ala Glu Cys Val Glu Ala Asp Ser Gly Arg Leu
 165 170 175
 Ala Ser Glu Leu Asn His Val Gln Glu Val Leu Glu Gly Tyr Lys Lys
 180 185 190
 Lys Tyr Glu Glu Glu Val Ser Leu Arg Ala Thr Ala Glu Asn Glu Phe
 195 200 205
 Val Ala Leu Lys Lys Asp Val Asp Cys Ala Tyr Leu Arg Lys Ser Asp
 210 215 220
 Leu Glu Ala Asn Val Glu Ala Leu Ile Gln Glu Ile Asp Phe Leu Arg
 225 230 235 240
 Arg Leu Tyr Glu Glu Glu Ile Arg Ile Leu Gln Ser His Ile Ser Asp
 245 250 255
 Thr Ser Val Val Val Lys Leu Asp Asn Ser Arg Asp Leu Asn Met Asp
 260 265 270
 Cys Ile Ile Ala Glu Ile Lys Ala Gln Tyr Asp Asp Ile Val Thr Arg
 275 280 285
 Ser Arg Ala Glu Ala Glu Ser Trp Tyr Arg Ser Lys Cys Glu Glu Met
 290 295 300
 Lys Ala Thr Val Ile Arg His Gly Glu Thr Leu Arg Arg Thr Lys Glu
 305 310 315 320
 Glu Ile Asn Glu Leu Asn Arg Met Ile Gln Arg Leu Thr Ala Glu Val
 325 330 335
 Glu Asn Ala Lys Cys Gln Asn Ser Lys Leu Glu Ala Ala Val Ala Gln
 340 345 350
 Ser Glu Gln Gln Gly Glu Ala Ala Leu Ser Asp Ala Arg Cys Lys Leu
 355 360 365
 Ala Glu Leu Glu Gly Ala Leu Gln Lys Ala Lys Gln Asp Met Ala Cys
 370 375 380
 Leu Ile Arg Glu Tyr Gln Glu Val Met Asn Ser Lys Leu Gly Leu Asp
 385 390 395 400
 Ile Glu Ile Ala Thr Tyr Arg Arg Leu Leu Glu Gly Glu Glu Gln Arg
 405 410 415
 Leu Cys Glu Gly Ile Gly Ala Val Asn Val Cys Val Ser Ser Ser Arg
 420 425 430
 Gly Gly Val Val Cys Gly Asp Leu Cys Val Ser Gly Ser Arg Pro Val
 435 440 445
 Thr Gly Ser Val Cys Ser Ala Pro Cys Asn Gly Asn Val Ala Val Ser
 450 455 460
 Thr Gly Leu Cys Ala Pro Cys Gly Gln Leu Asn Thr Thr Cys Gly Gly
 465 470 475 480
 Gly Ser Cys Gly Val Gly Ser Cys Gly Ile Ser Ser Leu Gly Val Gly
 485 490 495
 Ser Cys Gly Ser Ser Cys Arg Lys Cys
 500 505

<210> 486
 <211> 827
 <212> DNA
 <213> Homo sapiens

<400> 486
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 gcagccgggc cgaggccgag tcctggtacc gcagcaagtg tgaggagatg aaggccacgg 180
 tgatcaggca cggggagacc ctgcccgcga ccaaggagga gatcaatgag ctgaaccgca 240
 tgatccaaag gctgacggcc gaggtggaga atgccaagtg ccagaactcc aagctggagg 300
 ccgcggtggc ccagtctgag cagcagggtg aggcagccct cagtgatgcc cgctgcaagc 360
 tggccgagct ggaggcgcc ctgcagaagg ccaagcagga catggcctgc ctgatcaggg 420
 agtaccagga ggtgatgaac tccaagctgg gcctggacat cgagatcgcc acctacaggc 480
 gcctgctgga gggcgaggag cagaggctat gtgaaggcat tggggctgtg aatgtctgtg 540
 tcagcagctc ccggggcggg gtcgtgtgcg gggacctctg cgtgtcaggc tcccggccag 600
 tgactggcag tgtctgcagc gctccgtgca acgggaacgt ggcggtgagc accggcctgt 660
 gtgcgccctg cggccaattg aacaccacct gcggaggggg ttcttgcggc gtgggctcct 720
 gtggtatcag ctccctgggt gtggggtctt gcggcagcag ctgccggaaa tgttaggcac 780
 cccaactcaa gtcccaggcc ccaggcatct ttctgcctt gccttgc 827

<210> 487
 <211> 235
 <212> PRT
 <213> Homo sapiens

<400> 487
 Met Asp Cys Ile Ile Ala Glu Ile Lys Ala Gln Tyr Asp Asp Ile Val
 1 5 10 15
 Thr Arg Ser Arg Ala Glu Ala Glu Ser Trp Tyr Arg Ser Lys Cys Glu
 20 25 30
 Glu Met Lys Ala Thr Val Ile Arg His Gly Glu Thr Leu Arg Arg Thr
 35 40 45
 Lys Glu Glu Ile Asn Glu Leu Asn Arg Met Ile Gln Arg Leu Thr Ala
 50 55 60
 Glu Val Glu Asn Ala Lys Cys Gln Asn Ser Lys Leu Glu Ala Ala Val
 65 70 75 80
 Ala Gln Ser Glu Gln Gln Gly Glu Ala Ala Leu Ser Asp Ala Arg Cys
 85 90 95
 Lys Leu Ala Glu Leu Glu Gly Ala Leu Gln Lys Ala Lys Gln Asp Met
 100 105 110
 Ala Cys Leu Ile Arg Glu Tyr Gln Glu Val Met Asn Ser Lys Leu Gly
 115 120 125
 Leu Asp Ile Glu Ile Ala Thr Tyr Arg Arg Leu Leu Glu Gly Glu Glu
 130 135 140
 Gln Arg Leu Cys Glu Gly Ile Gly Ala Val Asn Val Cys Val Ser Ser
 145 150 155 160
 Ser Arg Gly Gly Val Val Cys Gly Asp Leu Cys Val Ser Gly Ser Arg
 165 170 175
 Pro Val Thr Gly Ser Val Cys Ser Ala Pro Cys Asn Gly Asn Val Ala
 180 185 190
 Val Ser Thr Gly Leu Cys Ala Pro Cys Gly Gln Leu Asn Thr Thr Cys

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<210> 488
<211> 9
<212> PRT
<213> Homo sapiens
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<210> 489
<211> 27
<212> DNA
<213> Homo sapiens
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<210> 490
<211> 3288
<212> DNA
<213> Homo sapiens
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<400>	490					
atgaagttgc	tgatggtcct	catgctggcg	gccctctccc	agcactgcta	cgcaggctct	60
ggctgcccct	tattggagaa	tgtgatttcc	aagacaatca	atccacaagt	gtctaagact	120
gaatacaaa	aacttcttca	agagttcata	gacgacaatg	ccactacaaa	tgccatagat	180
gaattgaagg	aatgttttct	taacccaaacg	gatgaaactc	tgagcaatgt	tgagggtgttt	240
atgcaattaa	tatatgacag	cagtctttgt	gatttattta	tgagtcccg	aaaagaaaca	300
tctgagaaat	ttacgtgggc	agcaaaagga	agacctagga	agatcgcatg	ggagaaaaaa	360
gaaacacctg	taaagactgg	atgctgtggca	agagtaacat	ctaataaaac	taaagttttg	420
gaaaaaggaa	gatctaagat	gattgcatgt	cctacaaaag	aatcatctac	aaaagcaagt	480
gccaatgac	agaggttccc	atcagaatcc	aaacaagagg	aagatgaaga	atattcttgt	540
gattctcgga	gtctctttga	gagttctgca	aagattcaag	tgtgtatacc	tgagtctata	600
tatcaaaaag	taatggagat	aaatagagaa	gtagaagagc	ctcctaagaa	gccatctgcc	660
ttcaagcctg	ccattgaaat	gcaaaaactct	gttccaaata	aagcctttga	attgaagaat	720
gaacaaacat	tgagagcaga	tccgatgttc	ccaccagaat	ccaaacaaaa	ggactatgaa	780
gaaaattctt	gggattctga	gagtctctgt	gagactgttt	cacagaagga	tgtgtgttta	840
cccaaggcta	cacatcaaaa	agaaatagat	aaaataaatg	gaaaattaga	agagtctcct	900
aataaagatg	gtcttctgaa	ggctacctgc	ggaatgaaag	tttctattcc	aactaaagcc	960
ttagaattga	aggacatgca	aactttcaaa	gcagagcctc	cggggaagcc	atctgccttc	1020
gagcctgcc	ctgaaatgca	aaagtctgtc	ccaaataaag	ccttggaatt	gaaaaatgaa	1080
caaacattga	gagcagatga	gatactccca	tcagaatcca	aacaaaagga	ctatgaagaa	1140
agttcttggg	attcttgagag	tctctgtgag	actgtttcac	agaaggatgt	gtgtttacc	1200
aaggctrcrc	atcaaaaaga	aatagataaa	ataaattggaa	aattagaagg	gtctcctggt	1260
aaagatggtc	ttctgaaggc	taactgcgga	atgaaagtgt	ctattccaac	taaagcctta	1320
qaattgatgg	acatgcaaac	tttcaaaagca	gagcctcccg	agaagccatc	tgcccttcgag	1380

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<210> 491
<211> 2232
<212> DNA
<213> Homo sapiens
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<400>	491						
atgaagttgc	tgatggctct	catgctggcg	gccctctccc	agcactgcta	cgcaggctct	60	
ggctgccct	tattggagaa	tgtgatttcc	aagacaatca	atccacaagt	gtctaagact	120	
gaatacaaag	aacttcttca	agagttcata	gacgacaatg	ccactacaaa	tgccatagat	180	
gaattgaagg	aatgttttct	taaccaaacg	gatgaaactc	tgagcaatgt	tgaggtgttt	240	
atgcaattaa	tatatgacag	cagtctttgt	gatttattta	tgagtcccg	aaaagaaaca	300	
tctgagaaat	ttacgtgggc	agcaaaagga	agacctagga	agatcgcatg	ggagaaaaaa	360	
gaaacacctg	taaagactgg	atgctgtggc	agagtaacat	ctaataaaac	taaagttttg	420	
gaaaaaggaa	gatctaagat	gattgcatgt	cctacaaaag	aatcatctac	aaaagcaagt	480	
gccaatgatc	agaggttccc	atcagaatcc	aaacaagagg	aagatgaaga	atattcttgt	540	
gattctcgga	gtctctttga	gagttctgca	aagattcaag	tgtgtatacc	tgagtctata	600	
tatcaaaaag	taatggagat	aaatagagaa	gtagaagagc	ctcctaagaa	gccatctgcc	660	
ttcaagcctg	ccattgaaat	gcaaaactct	gttccaaaat	aagcctttga	attgaagaat	720	
gaacaaacat	tgagagcaga	tccgatgttc	ccaccagaat	ccaaacaaaa	ggactatgaa	780	
gaaaattctt	gggattctga	gagtcctctg	gagactgttt	cacagaagga	tgtgtgttta	840	
ccaaggtcta	cacatcaaaa	aqaaatagat	aaaataaatg	gaaaattaga	agagtctcct	900	

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<210> 492
<211> 1233
<212> DNA
<213> Homo sapiens
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$\langle 210 \rangle$	493
$\langle 211 \rangle$	1095

<212> PRT
 <213> Homo sapiens

<220>
 <221> VARIANT
 <222> 403, 522, 615
 <223> Xaa = Any Amino Acid

<400> 493

Met	Lys	Leu	Leu	Met	Val	Leu	Met	Leu	Ala	Ala	Leu	Ser	Gln	His	Cys
1				5					10					15	
Tyr	Ala	Gly	Ser	Gly	Cys	Pro	Leu	Leu	Glu	Asn	Val	Ile	Ser	Lys	Thr
			20					25					30		
Ile	Asn	Pro	Gln	Val	Ser	Lys	Thr	Glu	Tyr	Lys	Glu	Leu	Leu	Gln	Glu
		35					40					45			
Phe	Ile	Asp	Asp	Asn	Ala	Thr	Thr	Asn	Ala	Ile	Asp	Glu	Leu	Lys	Glu
	50					55					60				
Cys	Phe	Leu	Asn	Gln	Thr	Asp	Glu	Thr	Leu	Ser	Asn	Val	Glu	Val	Phe
65					70					75				80	
Met	Gln	Leu	Ile	Tyr	Asp	Ser	Ser	Leu	Cys	Asp	Leu	Phe	Met	Ser	Pro
				85					90				95		
Ala	Lys	Glu	Thr	Ser	Glu	Lys	Phe	Thr	Trp	Ala	Ala	Lys	Gly	Arg	Pro
			100					105					110		
Arg	Lys	Ile	Ala	Trp	Glu	Lys	Lys	Glu	Thr	Pro	Val	Lys	Thr	Gly	Cys
		115				120						125			
Val	Ala	Arg	Val	Thr	Ser	Asn	Lys	Thr	Lys	Val	Leu	Glu	Lys	Gly	Arg
	130					135					140				
Ser	Lys	Met	Ile	Ala	Cys	Pro	Thr	Lys	Glu	Ser	Ser	Thr	Lys	Ala	Ser
145					150					155				160	
Ala	Asn	Asp	Gln	Arg	Phe	Pro	Ser	Glu	Ser	Lys	Gln	Glu	Glu	Asp	Glu
			165					170					175		
Glu	Tyr	Ser	Cys	Asp	Ser	Arg	Ser	Leu	Phe	Glu	Ser	Ser	Ala	Lys	Ile
			180					185					190		
Gln	Val	Cys	Ile	Pro	Glu	Ser	Ile	Tyr	Gln	Lys	Val	Met	Glu	Ile	Asn
		195					200					205			
Arg	Glu	Val	Glu	Glu	Pro	Pro	Lys	Lys	Pro	Ser	Ala	Phe	Lys	Pro	Ala
	210					215					220				
Ile	Glu	Met	Gln	Asn	Ser	Val	Pro	Asn	Lys	Ala	Phe	Glu	Leu	Lys	Asn
225				230						235				240	
Glu	Gln	Thr	Leu	Arg	Ala	Asp	Pro	Met	Phe	Pro	Pro	Glu	Ser	Lys	Gln
			245						250					255	
Lys	Asp	Tyr	Glu	Glu	Asn	Ser	Trp	Asp	Ser	Glu	Ser	Leu	Cys	Glu	Thr
		260						265					270		
Val	Ser	Gln	Lys	Asp	Val	Cys	Leu	Pro	Lys	Ala	Thr	His	Gln	Lys	Glu
		275					280					285			
Ile	Asp	Lys	Ile	Asn	Gly	Lys	Leu	Glu	Glu	Ser	Pro	Asn	Lys	Asp	Gly
	290					295					300				
Leu	Leu	Lys	Ala	Thr	Cys	Gly	Met	Lys	Val	Ser	Ile	Pro	Thr	Lys	Ala
305					310					315				320	
Leu	Glu	Leu	Lys	Asp	Met	Gln	Thr	Phe	Lys	Ala	Glu	Pro	Pro	Gly	Lys
			325						330					335	
Pro	Ser	Ala	Phe	Glu	Pro	Ala	Thr	Glu	Met	Gln	Lys	Ser	Val	Pro	Asn
			340					345					350		
Lys	Ala	Leu	Glu	Leu	Lys	Asn	Glu	Gln	Thr	Leu	Arg	Ala	Asp	Glu	Ile

10076366 "04306"


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<210> 494
<211> 743
<212> PRT
<213> Homo sapiens

<220>
<221> VARIANT
<222> 403, 522, 615
<223> Xaa = Any Amino Acid

<400> 494
Met Lys Leu Leu Met Val Leu Met Leu Ala Ala Leu Ser Gln His Cys
 1             5             10             15

```

Tyr Ala Gly Ser Gly Cys Pro Leu Leu Glu Asn Val Ile Ser Lys Thr
 20 25 30
 Ile Asn Pro Gln Val Ser Lys Thr Glu Tyr Lys Glu Leu Leu Gln Glu
 35 40 45
 Phe Ile Asp Asp Asn Ala Thr Thr Asn Ala Ile Asp Glu Leu Lys Glu
 50 55 60
 Cys Phe Leu Asn Gln Thr Asp Glu Thr Leu Ser Asn Val Glu Val Phe
 65 70 75 80
 Met Gln Leu Ile Tyr Asp Ser Ser Leu Cys Asp Leu Phe Met Ser Pro
 85 90 95
 Ala Lys Glu Thr Ser Glu Lys Phe Thr Trp Ala Ala Lys Gly Arg Pro
 100 105 110
 Arg Lys Ile Ala Trp Glu Lys Lys Glu Thr Pro Val Lys Thr Gly Cys
 115 120 125
 Val Ala Arg Val Thr Ser Asn Lys Thr Lys Val Leu Glu Lys Gly Arg
 130 135 140
 Ser Lys Met Ile Ala Cys Pro Thr Lys Glu Ser Ser Thr Lys Ala Ser
 145 150 155 160
 Ala Asn Asp Gln Arg Phe Pro Ser Glu Ser Lys Gln Glu Glu Asp Glu
 165 170 175
 Glu Tyr Ser Cys Asp Ser Arg Ser Leu Phe Glu Ser Ser Ala Lys Ile
 180 185 190
 Gln Val Cys Ile Pro Glu Ser Ile Tyr Gln Lys Val Met Glu Ile Asn
 195 200 205
 Arg Glu Val Glu Glu Pro Pro Lys Lys Pro Ser Ala Phe Lys Pro Ala
 210 215 220
 Ile Glu Met Gln Asn Ser Val Pro Asn Lys Ala Phe Glu Leu Lys Asn
 225 230 235 240
 Glu Gln Thr Leu Arg Ala Asp Pro Met Phe Pro Pro Glu Ser Lys Gln
 245 250 255
 Lys Asp Tyr Glu Glu Asn Ser Trp Asp Ser Glu Ser Leu Cys Glu Thr
 260 265 270
 Val Ser Gln Lys Asp Val Cys Leu Pro Lys Ala Thr His Gln Lys Glu
 275 280 285
 Ile Asp Lys Ile Asn Gly Lys Leu Glu Glu Ser Pro Asn Lys Asp Gly
 290 295 300
 Leu Leu Lys Ala Thr Cys Gly Met Lys Val Ser Ile Pro Thr Lys Ala
 305 310 315 320
 Leu Glu Leu Lys Asp Met Gln Thr Phe Lys Ala Glu Pro Pro Gly Lys
 325 330 335
 Pro Ser Ala Phe Glu Pro Ala Thr Glu Met Gln Lys Ser Val Pro Asn
 340 345 350
 Lys Ala Leu Glu Leu Lys Asn Glu Gln Thr Leu Arg Ala Asp Glu Ile
 355 360 365
 Leu Pro Ser Glu Ser Lys Gln Lys Asp Tyr Glu Glu Ser Ser Trp Asp
 370 375 380
 Ser Glu Ser Leu Cys Glu Thr Val Ser Gln Lys Asp Val Cys Leu Pro
 385 390 395 400
 Lys Ala Xaa His Gln Lys Glu Ile Asp Lys Ile Asn Gly Lys Leu Glu
 405 410 415
 Gly Ser Pro Val Lys Asp Gly Leu Leu Lys Ala Asn Cys Gly Met Lys
 420 425 430
 Val Ser Ile Pro Thr Lys Ala Leu Glu Leu Met Asp Met Gln Thr Phe
 435 440 445

Lys Ala Glu Pro Pro Glu Lys Pro Ser Ala Phe Glu Pro Ala Ile Glu
 450 455 460
 Met Gln Lys Ser Val Pro Asn Lys Ala Leu Glu Leu Lys Asn Glu Gln
 465 470 475 480
 Thr Leu Arg Ala Asp Glu Ile Leu Pro Ser Glu Ser Lys Gln Lys Asp
 485 490 495
 Tyr Glu Glu Ser Ser Trp Asp Ser Glu Ser Leu Cys Glu Thr Val Ser
 500 505 510
 Gln Lys Asp Val Cys Leu Pro Lys Ala Xaa His Gln Lys Glu Ile Asp
 515 520 525
 Lys Ile Asn Gly Lys Leu Glu Glu Ser Pro Asp Asn Asp Gly Phe Leu
 530 535 540
 Lys Ala Pro Cys Arg Met Lys Val Ser Ile Pro Thr Lys Ala Leu Glu
 545 550 555 560
 Leu Met Asp Met Gln Thr Phe Lys Ala Glu Pro Pro Glu Lys Pro Ser
 565 570 575
 Ala Phe Glu Pro Ala Ile Glu Met Gln Lys Ser Val Pro Asn Lys Ala
 580 585 590
 Leu Glu Leu Lys Asn Glu Gln Thr Leu Arg Ala Asp Gln Met Phe Pro
 595 600 605
 Ser Glu Ser Lys Gln Lys Xaa Val Glu Glu Asn Ser Trp Asp Ser Glu
 610 615 620
 Ser Leu Arg Glu Thr Val Ser Gln Lys Asp Val Cys Val Pro Lys Ala
 625 630 635 640
 Thr His Gln Lys Glu Met Asp Lys Ile Ser Gly Lys Leu Glu Asp Ser
 645 650 655
 Thr Ser Leu Ser Lys Ile Leu Asp Thr Val His Ser Cys Glu Arg Ala
 660 665 670
 Arg Glu Leu Gln Lys Asp His Cys Glu Gln Arg Thr Gly Lys Met Glu
 675 680 685
 Gln Met Lys Lys Lys Phe Cys Val Leu Lys Lys Lys Leu Ser Glu Ala
 690 695 700
 Lys Glu Ile Lys Ser Gln Leu Glu Asn Gln Lys Val Lys Trp Glu Gln
 705 710 715 720
 Glu Leu Cys Ser Val Arg Phe Leu Thr Leu Met Lys Met Lys Ile Ile
 725 730 735
 Ser Tyr Met Lys Ile Ala Cys
 740

<210> 495

<211> 410

<212> PRT

<213> Homo sapiens

<400> 495

Met Lys Leu Leu Met Val Leu Met Leu Ala Ala Leu Ser Gln His Cys
 1 5 10 15
 Tyr Ala Gly Ser Gly Cys Pro Leu Leu Glu Asn Val Ile Ser Lys Thr
 20 25 30
 Ile Asn Pro Gln Val Ser Lys Thr Glu Tyr Lys Glu Leu Leu Gln Glu
 35 40 45
 Phe Ile Asp Asp Asn Ala Thr Thr Asn Ala Ile Asp Glu Leu Lys Glu
 50 55 60

Cys Phe Leu Asn Gln Thr Asp Glu Thr Leu Ser Asn Val Glu Val Phe
 65 70 75 80
 Met Gln Leu Ile Tyr Asp Ser Ser Leu Cys Asp Leu Phe Met Gly Thr
 85 90 95
 Arg Ala Leu Gln Cys Glu Val Ser His Thr His Glu Asn Glu Asn Tyr
 100 105 110
 Leu Leu His Glu Asn Cys Met Leu Lys Lys Glu Ile Ala Met Leu Lys
 115 120 125
 Leu Glu Ile Ala Thr Leu Lys His Gln Tyr Gln Glu Lys Glu Asn Lys
 130 135 140
 Tyr Phe Glu Asp Ile Lys Ile Leu Lys Glu Lys Asn Ala Glu Leu Gln
 145 150 155 160
 Met Thr Leu Lys Leu Lys Glu Glu Ser Leu Thr Lys Arg Ala Ser Gln
 165 170 175
 Tyr Ser Gly Gln Leu Lys Val Leu Ile Ala Glu Asn Thr Met Leu Thr
 180 185 190
 Ser Lys Leu Lys Glu Lys Gln Asp Lys Glu Ile Leu Glu Ala Glu Ile
 195 200 205
 Glu Ser His His Pro Arg Leu Ala Ser Ala Val Gln Asp His Asp Gln
 210 215 220
 Ile Val Thr Ser Arg Lys Ser Gln Glu Pro Ala Phe His Ile Ala Gly
 225 230 235 240
 Asp Ala Cys Leu Gln Arg Lys Met Asn Val Asp Val Ser Ser Thr Ile
 245 250 255
 Tyr Asn Asn Glu Val Leu His Gln Pro Leu Ser Glu Ala Gln Arg Lys
 260 265 270
 Ser Lys Ser Leu Lys Ile Asn Leu Asn Tyr Ala Gly Asp Ala Leu Arg
 275 280 285
 Glu Asn Thr Leu Val Ser Glu His Ala Gln Arg Asp Gln Arg Glu Thr
 290 295 300
 Gln Cys Gln Met Lys Glu Ala Glu His Met Tyr Gln Asn Glu Gln Asp
 305 310 315 320
 Asn Val Asn Lys His Thr Glu Gln Gln Glu Ser Leu Asp Gln Lys Leu
 325 330 335
 Phe Gln Leu Gln Ser Lys Asn Met Trp Leu Gln Gln Gln Leu Val His
 340 345 350
 Ala His Lys Lys Ala Asp Asn Lys Ser Lys Ile Thr Ile Asp Ile His
 355 360 365
 Phe Leu Glu Arg Lys Met Gln His His Leu Leu Lys Glu Lys Asn Glu
 370 375 380
 Glu Ile Phe Asn Tyr Asn Asn His Leu Lys Asn Arg Ile Tyr Gln Tyr
 385 390 395 400
 Glu Lys Glu Lys Ala Glu Thr Glu Val Ile
 405 410

<210> 496

<211> 20

<212> PRT

<213> Homo sapiens

<400> 496

Ile Asp Glu Leu Lys Glu Cys Phe Leu Asn Gln Thr Asp Glu Thr Leu
 1 5 10 15

Ser Asn Val Glu
20

<210> 497
<211> 15
<212> PRT
<213> Homo sapiens

<400> 497
Thr Thr Asn Ala Ile Asp Glu Leu Lys Glu Cys Phe Leu Asn Gln
1 5 10 15

<210> 498
<211> 21
<212> PRT
<213> Homo sapiens

<400> 498
Ser Gln His Cys Tyr Ala Gly Ser Gly Cys Pro Leu Leu Glu Asn Val
1 5 10 15
Ile Ser Lys Thr Ile
20

<210> 499
<211> 20
<212> PRT
<213> Homo sapiens

<400> 499
Glu Tyr Lys Glu Leu Leu Gln Glu Phe Ile Asp Asp Asn Ala Thr Thr
1 5 10 15
Asn Ala Ile Asp
20

<210> 500
<211> 9
<212> PRT
<213> Homo sapiens

<400> 500
Lys Leu Leu Met Val Leu Met Leu Ala
1 5

<210> 501
<211> 13
<212> PRT
<213> Homo sapiens

<400> 501

Gln Glu Phe Ile Asp Asp Asn Ala Thr Thr Asn Ala Ile
 1 5 10

<210> 502
 <211> 13
 <212> PRT
 <213> Homo sapiens

<400> 502
 Leu Lys Glu Cys Phe Leu Asn Gln Thr Asp Glu Thr Leu
 1 5 10

<210> 503
 <211> 93
 <212> PRT
 <213> Homo sapiens

<400> 503
 Met Lys Leu Leu Met Val Leu Met Leu Ala Ala Leu Ser Gln His Cys
 1 5 10 15
 Tyr Ala Gly Ser Gly Cys Pro Leu Leu Glu Asn Val Ile Ser Lys Thr
 20 25 30
 Ile Asn Pro Gln Val Ser Lys Thr Glu Tyr Lys Glu Leu Leu Gln Glu
 35 40 45
 Phe Ile Asp Asp Asn Ala Thr Thr Asn Ala Ile Asp Glu Leu Lys Glu
 50 55 60
 Cys Phe Leu Asn Gln Thr Asp Glu Thr Leu Ser Asn Val Glu Val Phe
 65 70 75 80
 Met Gln Leu Ile Tyr Asp Ser Ser Leu Cys Asp Leu Phe
 85 90

<210> 504
 <211> 1964
 <212> DNA
 <213> Homo sapiens

<400> 504
 gcatgctcga cgccccatgt gctgaaaggg cgaggagcct cctgcggcgg cccctgtgtc 60
 cctgcctcta cctgcgcacc tgcattgtgt caacccccgg gagaacacct ggcgggccct 120
 gacccagggtg cccgaggagg ccccgcttcg gggctgcggg ctctgcacca tgcacaacta 180
 cctgtttctg gcggggggca tccgtggctc cgggtgccaag gccgtctgct ccaacgaggt 240
 cttctgtctac aaccctctga ccaacatctg gagccagggt cggcccatgc agcaggcccc 300
 agcccagctc aagctggtgg ccttgacagg gctgctctat gccatcggtg gcgaatgcct 360
 gtacagcatg gactgctacg acccgcgaa acagcgctgg accccacgag cgccactccc 420
 cgcaggcacc ttccctgtgg ccacagaggc tgtggcctgc cgtggggaca tctacgtcac 480
 cgggggtcac ctcttctacc gcctgctcag gtacagcccc gtgaaggatg cttggggacga 540
 gtgcccatac agtgccagcc accggcggtt cagcgacatc gttgcactgg ggggcttcct 600
 gtaccgcttc gacctgctgc ggggcgtggg cgccgcccgt atgcgctaca acacagtgc 660
 cggtcctctg agcagggtct cctccctgcc cctgcccgcc cccgccccac tgcgctgcac 720
 caccctgggc aacaccattt actgcctcaa cccccaggtc actgccacct tcacggtctc 780
 tggggggact gccagttcc aggccaagga gctgcagccc ttccccttgg ggagcaccgg 840


```
<210> 505
<211> 732
<212> DNA
<213> Homo sapiens
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```
<210> 506
<211> 729
<212> DNA
<213> Homo sapiens
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<400> 506						
atgcacaact	acctgtttct	ggcggggggc	atccgtggct	ccggtgccaa	ggcgtctgc	60
tccaacgagg	tcttctgcta	caacctctg	accaacatct	ggagccaggt	tcggcccatg	120
cagcaggccc	gagccaagct	caagctggtg	gccctggacg	ggctgctcta	tgccatcggg	180
ggcgaatgcc	tgtacagcat	ggagtgtctac	gacccgcgaa	cagacgcctg	gacccacgc	240
gcgccactcc	cgcaggcac	cttccctgtg	gccacgagg	ctgtggcctg	ccgtggggac	300
atctacgtca	cgggggtca	cctctttctac	cgctgtctca	ggtacagccc	cgtgaaggat	360
gcttgggacg	agtgccata	cagtgcacg	caccggcggt	ccagcgacat	cgttgcactg	420
gggggcttcc	tgtaccgctt	cgacctgctg	cggggcggtg	gcgcgcgcgt	gatgcgctac	480

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aacacagtga cgggtcctg gagcagggct gcctccctgc cctgcccgc ccccgcccca 540
ctgcgctgca ccacctggg caacaccatt tactgcctca acccccaggt cactgccacc 600
ttcacggtct ctggggggac tgcccagttc caggccaagg agctgcagcc ctcccccttg 660
gggagcaccg ggtcctcag tccattcatc ctgactctgc cccctgagga cgggtctgcag 720
acctcactc                                     729

```

```

<210> 507
<211> 243
<212> PRT
<213> Homo sapiens

```

```

<400> 507
Met His Asn Tyr Leu Phe Leu Ala Gly Gly Ile Arg Gly Ser Gly Ala
 1          5          10          15
Lys Ala Val Cys Ser Asn Glu Val Phe Cys Tyr Asn Pro Leu Thr Asn
 20          25          30
Ile Trp Ser Gln Val Arg Pro Met Gln Gln Ala Arg Ala Gln Leu Lys
 35          40          45
Leu Val Ala Leu Asp Gly Leu Leu Tyr Ala Ile Gly Gly Glu Cys Leu
 50          55          60
Tyr Ser Met Glu Cys Tyr Asp Pro Arg Thr Asp Ala Trp Thr Pro Arg
 65          70          75          80
Ala Pro Leu Pro Ala Gly Thr Phe Pro Val Ala His Glu Ala Val Ala
 85          90          95
Cys Arg Gly Asp Ile Tyr Val Thr Gly Gly His Leu Phe Tyr Arg Leu
100          105          110
Leu Arg Tyr Ser Pro Val Lys Asp Ala Trp Asp Glu Cys Pro Tyr Ser
115          120          125
Ala Ser His Arg Arg Ser Ser Asp Ile Val Ala Leu Gly Gly Phe Leu
130          135          140
Tyr Arg Phe Asp Leu Leu Arg Gly Val Gly Ala Ala Val Met Arg Tyr
145          150          155          160
Asn Thr Val Thr Gly Ser Trp Ser Arg Ala Ala Ser Leu Pro Leu Pro
165          170          175
Ala Pro Ala Pro Leu Arg Cys Thr Thr Leu Gly Asn Thr Ile Tyr Cys
180          185          190
Leu Asn Pro Gln Val Thr Ala Thr Phe Thr Val Ser Gly Gly Thr Ala
195          200          205
Gln Phe Gln Ala Lys Glu Leu Gln Pro Phe Pro Leu Gly Ser Thr Gly
210          215          220
Val Leu Ser Pro Phe Ile Leu Thr Leu Pro Pro Glu Asp Arg Leu Gln
225          230          235          240
Thr Ser Leu

```

```

<210> 508
<211> 158
<212> PRT
<213> Homo sapiens

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<400> 508
Met His Asn Tyr Leu Phe Leu Ala Gly Gly Ile Arg Gly Ser Gly Ala
 1          5          10          15

```

Lys Ala Val Cys Ser Asn Glu Val Phe Cys Tyr Asn Pro Leu Thr Asn
 20 25 30
 Ile Trp Ser Gln Val Arg Pro Met Gln Gln Ala Arg Ala Gln Leu Lys
 35 40 45
 Leu Val Ala Leu Asp Gly Leu Leu Tyr Ala Ile Gly Gly Glu Cys Leu
 50 55 60
 Tyr Ser Met Glu Cys Tyr Asp Pro Arg Thr Asp Ala Trp Thr Pro Arg
 65 70 75 80
 Ala Pro Leu Pro Ala Gly Thr Phe Pro Val Ala His Glu Ala Val Ala
 85 90 95
 Cys Arg Gly Asp Ile Tyr Val Thr Gly Gly His Leu Phe Tyr Arg Leu
 100 105 110
 Leu Arg Tyr Ser Pro Val Lys Asp Ala Trp Asp Glu Cys Pro Tyr Ser
 115 120 125
 Ala Ser His Arg Arg Ser Ser Asp Ile Val Ala Leu Gly Gly Phe Leu
 130 135 140
 Tyr Arg Phe Asp Leu Leu Arg Gly Val Gly Ala Ala Val Met
 145 150 155

<210> 509
 <211> 85
 <212> PRT
 <213> Homo sapiens

<400> 509
 Arg Tyr Asn Thr Val Thr Gly Ser Trp Ser Arg Ala Ala Ser Leu Pro
 1 5 10 15
 Leu Pro Ala Pro Ala Pro Leu Arg Cys Thr Thr Leu Gly Asn Thr Ile
 20 25 30
 Tyr Cys Leu Asn Pro Gln Val Thr Ala Thr Phe Thr Val Ser Gly Gly
 35 40 45
 Thr Ala Gln Phe Gln Ala Lys Glu Leu Gln Pro Phe Pro Leu Gly Ser
 50 55 60
 Thr Gly Val Leu Ser Pro Phe Ile Leu Thr Leu Pro Pro Glu Asp Arg
 65 70 75 80
 Leu Gln Thr Ser Leu
 85

<210> 510
 <211> 732
 <212> DNA
 <213> Homo sapiens

<400> 510
 atgcgacccc agggccccgc cgcctccccg cagcggctcc gcggcctcct gctgctcctg 60
 ctgctgcagc tgcccgcgcc gtcgagcgcc tctgagatcc ccaaggggaa gcaaaaggcg 120
 cagctccggc agagggaggt ggtggacctg tataatggaa tgtgcttaca agggccagca 180
 ggagtgcctg gtcgagacgg gagccctggg gccaatgtta ttccgggtac acctgggata 240
 ccaggtcggg atggattcaa aggagaaaag ggggaatgtc tgaggggaaag ctttgaggag 300
 tcctggacac ccaactacaa gcagtgttca tggagtcat tgaattatgg catagatctt 360
 gggaaaattg cggagtgtac atttacaag atgcgttcaa atagtgtctt aagagttttg 420
 ttcagtggct cacttcggct aaaatgcaga aatgcattgt gtcagcgttg gtatttcaca 480

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ttcaatggag ctgaatgttc aggacctctt cccattgaag ctataattta tttggacca 540
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tgtgaaggaa ttggtgctgg attagtggat gttgctatct gggttggcac ttgttcagat 660
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<210> 511
<211> 729
<212> DNA
<213> Homo sapiens

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<210> 512
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<212> DNA
<213> Homo sapiens

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<211> 243

<212> PRT

<213> Homo sapiens

<400> 514

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          20          25          30
Ile Pro Lys Gly Lys Gln Lys Ala Gln Leu Arg Gln Arg Glu Val Val
          35          40          45
Asp Leu Tyr Asn Gly Met Cys Leu Gln Gly Pro Ala Gly Val Pro Gly
          50          55          60
Arg Asp Gly Ser Pro Gly Ala Asn Val Ile Pro Gly Thr Pro Gly Ile
          65          70          75          80
Pro Gly Arg Asp Gly Phe Lys Gly Glu Lys Gly Glu Cys Leu Arg Glu
          85          90          95
Ser Phe Glu Glu Ser Trp Thr Pro Asn Tyr Lys Gln Cys Ser Trp Ser
          100          105          110
Ser Leu Asn Tyr Gly Ile Asp Leu Gly Lys Ile Ala Glu Cys Thr Phe
          115          120          125
Thr Lys Met Arg Ser Asn Ser Ala Leu Arg Val Leu Phe Ser Gly Ser
          130          135          140
Leu Arg Leu Lys Cys Arg Asn Ala Cys Cys Gln Arg Trp Tyr Phe Thr
          145          150          155          160
Phe Asn Gly Ala Glu Cys Ser Gly Pro Leu Pro Ile Glu Ala Ile Ile
          165          170          175
Tyr Leu Asp Gln Gly Ser Pro Glu Met Asn Ser Thr Ile Asn Ile His
          180          185          190
Arg Thr Ser Ser Val Glu Gly Leu Cys Glu Gly Ile Gly Ala Gly Leu
          195          200          205
Val Asp Val Ala Ile Trp Val Gly Thr Cys Ser Asp Tyr Pro Lys Gly
          210          215          220
Asp Ala Ser Thr Gly Trp Asn Ser Val Ser Arg Ile Ile Ile Glu Glu
          225          230          235          240
Leu Pro Lys

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<400> 515

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<212> PRT
<213> Homo sapiens
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<400> 516

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Leu	Leu	Leu	Leu	Leu	Leu	Gln	Leu	Pro	Ala	Pro	Ser	Ser	Ala	Ser	Glu
			20					25					30		
Ile	Pro	Lys	Gly	Lys	Gln	Lys	Ala	Gln	Leu	Arg	Gln	Arg	Glu	Val	Val

35 40 45
 Asp Leu Tyr Asn Gly Met Cys Leu Gln Gly Pro Ala Gly Val Pro Gly
 50 55 60
 Arg Asp Gly Ser Pro Gly Ala Asn Val Ile Pro Gly Thr Pro Gly Ile
 65 70 75 80
 Pro Gly Arg Asp Gly Phe Lys Gly Glu Lys Gly Glu Cys Leu Arg Glu
 85 90 95
 Ser Phe Glu Glu Ser Trp Thr Pro Asn Tyr Lys Gln Cys Ser Trp Ser
 100 105 110
 Ser Leu Asn Tyr Gly Ile Asp Leu Gly Lys Ile Ala Glu Cys Thr Phe
 115 120 125
 Thr Lys Met Arg Ser Asn Ser Ala Leu Arg Val Leu Phe Ser Gly Ser
 130 135 140
 Leu Arg Leu Lys Cys Arg Asn Ala Cys Cys Gln Arg Trp Tyr Phe Thr
 145 150 155 160
 Phe Asn Gly Ala Glu Cys Ser Gly Pro Leu Pro Ile Glu Ala Ile Ile
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 Tyr Leu Asp Gln Gly Ser Pro Glu Met Asn Ser Thr Ile Asn Ile His
 180 185 190
 Arg Thr Ser Ser Val
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<210> 517
 <211> 232
 <212> PRT
 <213> Homo sapiens

<400> 517
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 Val Pro Leu Leu Gly Leu Leu Arg Leu Gln Leu Arg Ala Ala Arg Gln
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 35 40 45
 Arg Gly Leu Leu Leu Leu Leu Leu Leu Gln Leu Pro Ala Pro Ser Ser
 50 55 60
 Ala Ser Glu Ile Pro Lys Gly Lys Gln Lys Ala Gln Leu Arg Gln Arg
 65 70 75 80
 Glu Val Val Asp Leu Tyr Asn Gly Met Cys Leu Gln Gly Pro Ala Gly
 85 90 95
 Val Pro Gly Arg Asp Gly Ser Pro Gly Ala Asn Val Ile Pro Gly Thr
 100 105 110
 Pro Gly Ile Pro Gly Arg Asp Gly Phe Lys Gly Glu Lys Gly Glu Cys
 115 120 125
 Leu Arg Glu Ser Phe Glu Glu Ser Trp Thr Pro Asn Tyr Lys Gln Cys
 130 135 140
 Ser Trp Ser Ser Leu Asn Tyr Gly Ile Asp Leu Gly Lys Ile Ala Glu
 145 150 155 160
 Cys Thr Phe Thr Lys Met Arg Ser Asn Ser Ala Leu Arg Val Leu Phe
 165 170 175
 Ser Gly Ser Leu Arg Leu Lys Cys Arg Asn Ala Cys Cys Gln Arg Trp
 180 185 190
 Tyr Phe Thr Phe Asn Gly Ala Glu Cys Ser Gly Pro Leu Pro Ile Glu

195 200 205
 Ala Ile Ile Tyr Leu Asp Gln Gly Ser Pro Glu Met Asn Ser Thr Ile
 210 215 220
 Asn Ile His Arg Thr Ser Ser Val
 225 230

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<400> 518
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 Trp Val Gly Thr Cys Ser Asp Tyr Pro Lys Gly Asp Ala Ser Thr Gly
 20 25 30
 Trp Asn Ser Val Ser Arg Ile Ile Ile Glu Glu Leu Pro Lys
 35 40 45

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 <211> 26
 <212> PRT
 <213> Homo sapiens

<400> 519
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 Ser Arg Ile Ile Ile Glu Glu Leu Pro Lys
 20 25

<210> 520
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 <212> DNA
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 <211> 60
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<210> 531
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<400> 532
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<210> 533
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<400> 533
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<210> 534
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<400> 534
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 Thr Leu Lys His Gln
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<210> 535
 <211> 20

<212> PRT

<213> Homo sapiens

<400> 535

Leu Lys His Gln Tyr Gln Glu Lys Glu Asn Lys Tyr Phe Glu Asp Ile
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 Lys Ile Leu Lys
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<210> 536

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<212> PRT

<213> Homo sapiens

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<213> Homo sapiens

<400> 537

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 Arg Lys Met Asn
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<210> 538

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<213> Homo sapiens

<400> 538

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 Ser Thr Ile Tyr
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<210> 539

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<400> 539

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 5 10 15

Leu His Gln Pro
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Lys Asn Met Trp
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<210> 543
<211> 21
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<213> Homo sapiens

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Gln Leu Val His Ala
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<210> 544
<211> 20

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<210> 549

<211> 1953

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> 985

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<400> 549

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<212> DNA

<213> Homo sapiens

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<210> 551

<211> 324

<212> PRT

<213> Homo sapiens

<400> 551

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Met Leu Lys Lys Glu Ile Ala Met Leu Lys Leu Glu Ile Ala Thr Leu
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```

Lys His Gln Tyr Gln Glu Lys Glu Asn Lys Tyr Phe Glu Asp Ile Lys
                        50                      55                  60

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```

Ile Leu Lys Glu Lys Asn Ala Glu Leu Gln Met Thr Leu Lys Leu Lys
                        65                      70                  75                  80

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```

Glu Glu Ser Leu Thr Lys Arg Ala Ser Gln Tyr Ser Gly Gln Leu Lys
                        85                      90                  95

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```

Val Leu Ile Ala Glu Asn Thr Met Leu Thr Ser Lys Leu Lys Glu Lys
                        100                     105                  110

```

```

Gln Asp Lys Glu Ile Leu Glu Ala Glu Ile Glu Ser His His Pro Arg
                        115                     120                  125

```

```

Leu Ala Ser Ala Val Gln Asp His Asp Gln Ile Val Thr Ser Arg Lys
                        130                     135                  140

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Ser Gln Glu Pro Ala Phe His Ile Ala Gly Asp Ala Cys Leu Gln Arg
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```

```

Lys Met Asn Val Asp Val Ser Ser Thr Ile Tyr Asn Asn Glu Val Leu
                        165                     170                  175

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```

His Gln Pro Leu Ser Glu Ala Gln Arg Lys Ser Lys Ser Leu Lys Ile
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Ser Cys Asp Ser Arg Ser Leu Phe Glu Ser Ser Ala Lys Ile Gln Val
100 105 110

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 420 425 430
 Asp Val Cys Leu Pro Lys Ala Ala His Gln Lys Glu Ile Asp Lys Ile
 435 440 445
 Asn Gly Lys Leu Glu Glu Ser Pro Asp Asn Asp Gly Phe Leu Lys Ser
 450 455 460
 Pro Cys Arg Met Lys Val Ser Ile Pro Thr Lys Ala Leu Glu Leu Met
 465 470 475 480
 Asp Met Gln Thr Phe Lys Ala Glu Pro Pro Glu Lys Pro Ser Ala Phe
 485 490 495
 Glu Pro Ala Ile Glu Met Gln Lys Ser Val Pro Asn Lys Ala Leu Glu
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 Leu Lys Asn Glu Gln Thr Leu Arg Ala Asp Gln Met Phe Pro Ser Glu
 515 520 525
 Ser Lys Gln Lys Asn Val Glu Glu Asn Ser Trp Asp Ser Glu Ser Leu
 530 535 540
 Arg Glu Thr Val Ser Gln Lys Asp Val Cys Val Pro Lys Ala Thr His
 545 550 555 560
 Gln Lys Glu Met Asp Lys Ile Ser Gly Lys Leu Glu Asp Ser Thr Ser
 565 570 575
 Leu Ser Lys Ile Leu Asp Thr Val His Ser Cys Glu Arg Ala Arg Glu
 580 585 590
 Leu Gln Lys Asp His Cys Glu Gln Arg Thr Gly Lys Met Glu Gln Met
 595 600 605
 Lys Lys Lys Phe Cys Val Leu Lys Lys Lys Leu Ser Glu Ala Lys Glu
 610 615 620
 Ile Lys Ser Gln Leu Glu Asn Gln Lys Val Lys Trp Glu Gln Glu Leu
 625 630 635 640
 Cys Ser Val Arg Phe Leu Thr Leu Met Lys Met Lys Ile Ile Ser Tyr
 645 650 655
 Met Lys Ile Ala Cys
 660

<400> 553

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290	295	300
Ser Leu Cys Glu Thr Val Ser Gln Lys Asp Val Cys Leu Pro Lys Ala		
305	310	315
Ala His Gln Lys Glu Ile Asp Lys Ile Asn Gly Lys Leu Glu Gly Ser		
325	330	335
Pro Gly Lys Asp Gly Leu Leu Lys Ala Asn Cys Gly Met Lys Val Ser		
340	345	350
Ile Pro Thr Lys Ala Leu Glu Leu Met Asp Met Gln Thr Phe Lys Ala		
355	360	365
Glu Pro Pro Glu Lys Pro Ser Ala Phe Glu Pro Ala Ile Glu Met Gln		
370	375	380
Lys Ser Val Pro Asn Lys Ala Leu Glu Leu Lys Asn Glu Gln Thr Leu		
385	390	395
Arg Ala Asp Glu Ile Leu Pro Ser Glu Ser Lys Gln Lys Asp Tyr Glu		
405	410	415
Glu Ser Ser Trp Asp Ser Glu Ser Leu Cys Glu Thr Val Ser Gln Lys		
420	425	430
Asp Val Cys Leu Pro Lys Ala Ala His Gln Lys Glu Ile Asp Lys Ile		
435	440	445
Asn Gly Lys Leu Glu Glu Ser Pro Asp Asn Asp Gly Phe Leu Lys Ser		
450	455	460
Pro Cys Arg Met Lys Val Ser Ile Pro Thr Lys Ala Leu Glu Leu Met		
465	470	475
Asp Met Gln Thr Phe Lys Ala Glu Pro Pro Glu Lys Pro Ser Ala Phe		
485	490	495
Glu Pro Ala Ile Glu Met Gln Lys Ser Val Pro Asn Lys Ala Leu Glu		
500	505	510
Leu Lys Asn Glu Gln Thr Leu Arg Ala Asp Gln Met Phe Pro Ser Glu		
515	520	525
Ser Lys Gln Lys Asn Val Glu Glu Asn Ser Trp Asp Ser Glu Ser Leu		
530	535	540
Arg Glu Thr Val Ser Gln Lys Asp Val Cys Val Pro Lys Ala Thr His		

545 550 555 560
 Gln Lys Glu Met Asp Lys Ile Ser Gly Lys Leu Glu Asp Ser Thr Ser
 565 570 575
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 580 585 590
 Leu Gln Lys Asp His Cys Glu Gln Arg Thr Gly Lys Met Glu Gln Met
 595 600 605
 Lys Lys Lys Phe Cys Val Leu Lys Lys Lys Leu Ser Glu Ala Lys Glu
 610 615 620
 Ile Lys Ser Gln Leu Glu Asn Gln Lys Val Lys Trp Glu Gln Glu Leu
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 645 650 655
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 675 680 685
 Leu Arg Ile Gln Asp Ile Glu Leu Lys Ser Val Glu Ser Asn Leu Asn
 690 695 700
 Gln Val Ser His Thr His Glu Asn Glu Asn Tyr Leu Leu His Glu Asn
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 725 730 735
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 755 760 765
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 770 775 780
 Lys Val Leu Ile Ala Glu Asn Thr Met Leu Thr Ser Lys Leu Lys Glu
 785 790 795 800
 Lys Gln Asp Lys Glu Ile Leu Glu Ala Glu Ile Glu Ser His His Pro
 805 810 815
 Arg Leu Ala Ser Ala Val Gln Asp His Asp Gln Ile Val Thr Ser Arg
 820 825 830
 Lys Ser Gln Glu Pro Ala Phe His Ile Ala Gly Asp Ala Cys Leu Gln

835	840	845
Arg Lys Met Asn Val Asp Val Ser Ser Thr Ile Tyr Asn Asn Glu Val		
850	855	860
Leu His Gln Pro Leu Ser Glu Ala Gln Arg Lys Ser Lys Ser Leu Lys		
865	870	875
Ile Asn Leu Asn Tyr Ala Gly Asp Ala Leu Arg Glu Asn Thr Leu Val		
	885	890
Ser Glu His Ala Gln Arg Asp Gln Arg Glu Thr Gln Cys Gln Met Lys		
	900	905
Glu Ala Glu His Met Tyr Gln Asn Glu Gln Asp Asn Val Asn Lys His		
	915	920
Thr Glu Gln Gln Glu Ser Leu Asp Gln Lys Leu Phe Gln Leu Gln Ser		
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Lys Asn Met Trp Leu Gln Gln Gln Leu Val His Ala His Lys Lys Ala		
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Asp Asn Lys Ser Lys Ile Thr Ile Asp Ile His Phe Leu Glu Arg Lys		
	965	970
Met Gln His His Leu Leu Lys Glu Lys Asn Glu Glu Ile Phe Asn Tyr		
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 <213> Artificial Sequence

<220>
 <223> PCR primer

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25

<210> 555
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<220>

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<400> 560
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<400> 561
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<400> 562
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<400> 563
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<210> 564
 <211> 4458
 <212> DNA

<213> Homo sapiens

<400> 564

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<211> 1341

<212> PRT

<213> Homo sapiens

<400> 565

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35 40 45

Glu His Arg Thr Pro Leu Met Lys Ala Leu Gln Cys His Gln Glu Ala
50 55 60

Cys Ala Asn Ile Leu Ile Asp Ser Gly Ala Asp Ile Asn Leu Val Asp
65 70 75 80

Val Tyr Gly Asn Met Ala Leu His Tyr Ala Val Tyr Ser Glu Ile Leu
85 90 95

Ser Val Val Ala Lys Leu Leu Ser His Gly Ala Val Ile Glu Val His
100 105 110

Asn Lys Ala Ser Leu Thr Pro Leu Leu Leu Ser Ile Thr Lys Arg Ser
115 120 125

Glu Gln Ile Val Glu Phe Leu Leu Ile Lys Asn Ala Asn Ala Asn Ala
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 Val Asn Lys Tyr Lys Cys Thr Ala Leu Met Leu Ala Val Cys His Gly
 145 150 155 160
 Ser Ser Glu Ile Val Gly Met Leu Leu Gln Gln Asn Val Asp Val Phe
 165 170 175
 Ala Ala Asp Ile Cys Gly Val Thr Ala Glu His Tyr Ala Val Thr Cys
 180 185 190
 Gly Phe His His Ile His Glu Gln Ile Met Glu Tyr Ile Arg Lys Leu
 195 200 205
 Ser Lys Asn His Gln Asn Thr Asn Pro Glu Gly Thr Ser Ala Gly Thr
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 Pro Asp Glu Ala Ala Pro Leu Ala Glu Arg Thr Pro Asp Thr Ala Glu
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 Ser Leu Val Glu Lys Thr Pro Asp Glu Ala Ala Pro Leu Val Glu Arg
 245 250 255
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 Ala Ser Leu Val Glu Gly Thr Ser Asp Lys Ile Gln Cys Leu Glu Lys
 275 280 285
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 Ile Thr Ser Pro Ala Lys Glu Thr Ser Glu Lys Phe Thr Trp Pro Ala
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 325 330 335
 Arg Glu Ile Met Ser Pro Ala Lys Glu Thr Ser Glu Lys Phe Thr Trp
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 Ala Ala Lys Gly Arg Pro Arg Lys Ile Ala Trp Glu Lys Lys Glu Thr
 355 360 365
 Pro Val Lys Thr Gly Cys Val Ala Arg Val Thr Ser Asn Lys Thr Lys
 370 375 380
 Val Leu Glu Lys Gly Arg Ser Lys Met Ile Ala Cys Pro Thr Lys Glu
 385 390 395 400
 Ser Ser Thr Lys Ala Ser Ala Asn Asp Gln Arg Phe Pro Ser Glu Ser
 405 410 415

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Glu	Ser	Ser	Ala	Lys	Ile	Gln	Val	Cys	Ile	Pro	Glu	Ser	Ile	Tyr	Gln
435								440				445			
Lys	Val	Met	Glu	Ile	Asn	Arg	Glu	Val	Glu	Glu	Pro	Pro	Lys	Lys	Pro
450								455				460			
Ser	Ala	Phe	Lys	Pro	Ala	Ile	Glu	Met	Gln	Asn	Ser	Val	Pro	Asn	Lys
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Ala	Phe	Glu	Leu	Lys	Asn	Glu	Gln	Thr	Leu	Arg	Ala	Asp	Pro	Met	Phe
				485								490			
Pro	Pro	Glu	Ser	Lys	Gln	Lys	Asp	Tyr	Glu	Glu	Asn	Ser	Trp	Asp	Ser
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Ser	Pro	Asn	Lys	Asp	Gly	Leu	Leu	Lys	Ala	Thr	Cys	Gly	Met	Lys	Val
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Ile	Asn	Gly	Lys	Leu	Glu	Gly	Ser	Pro	Val	Lys	Asp	Gly	Leu	Leu	Lys
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 Glu Ser Lys Gln Lys Asp Tyr Glu Glu Ser Ser Trp Asp Ser Glu Ser
 740 745 750
 Leu Cys Glu Thr Val Ser Gln Lys Asp Val Cys Leu Pro Lys Ala Thr
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 His Gln Lys Glu Ile Asp Lys Ile Asn Gly Lys Leu Glu Glu Ser Pro
 770 775 780
 Asp Asn Asp Gly Phe Leu Lys Ala Pro Cys Arg Met Lys Val Ser Ile
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 Pro Thr Lys Ala Leu Glu Leu Met Asp Met Gln Thr Phe Lys Ala Glu
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 850 855 860
 Asn Ser Trp Asp Ser Glu Ser Leu Arg Glu Thr Val Ser Gln Lys Asp
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 900 905 910
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Arg Glu Glu Leu Gly Arg Ile Glu Glu Gln His Arg Lys Glu Leu Glu
 995 1000 1005
 Val Lys Gln Gln Leu Glu Gln Ala Leu Arg Ile Gln Asp Ile Glu Leu
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 Lys Ser Val Glu Ser Asn Leu Asn Gln Val Ser His Thr His Glu Asn
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 Ser Thr Ile Tyr Asn Asn Glu Val Leu His Gln Pro Leu Ser Glu Ala
 1185 1190 1195 1200
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 Arg Glu Thr Gln Cys Gln Met Lys Glu Ala Glu His Met Tyr Gln Asn
 1235 1240 1245
 Glu Gln Asp Asn Val Asn Lys His Thr Glu Gln Gln Glu Ser Leu Asp
 1250 1255 1260
 Gln Lys Leu Phe Gln Leu Gln Ser Lys Asn Met Trp Leu Gln Gln Gln
 1265 1270 1275 1280

Leu Val His Ala His Lys Lys Ala Asp Asn Lys Ser Lys Ile Thr Ile
 1285 1290 1295

Asp Ile His Phe Leu Glu Arg Lys Met Gln His His Leu Leu Lys Glu
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 <211> 4047
 <212> DNA
 <213> Homo sapiens

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 aacaaggcta gcctcacacc acttttacta tccataacga aaagaagtga gcaaattgtg 420
 gaatttttgc tgataaaaaa tgcaaatgcg aatgcagtta ataagtataa atgcacagcc 480
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<211> 1199

<212> DNA

<213> Homo sapiens

<400> 567

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 cagcctgacg tcttggatgg cgaacacagg acacctctga tgaaggctct acaatgccat 180
 caggaggctt gtgcaaatat tctgatagat tctggtgccg atataaatct cgtagatgtg 240
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 ctgctgtccc atggtgcagt catcgaagtg cacaacaagg ctagcctcac accactttta 360
 ctatccataa cgaaaagaag tgagcaaatt gtggaatttt tgctgataaa aaatgcaaatt 420
 gcgaatgcag ttaataagta taaatgcaca gccctcatgc ttgctgtatg tcatggatta 480
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 atggaatata tacgaaaatt atctaaaaat catcaaaata ccaatccaga aggaacatct 660
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<210> 569

<211> 1199

<212> DNA

<213> Homo sapiens

<400> 569

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caggaggctt gtgcaaatat tctgatagat tctgggtgcc atataaatct cgtagatgtg 240
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<210> 570

<211> 399

<212> PRT

<213> Homo sapiens

<400> 570

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Thr Lys Arg Lys Lys Thr Ile Asn Leu Asn Ile Gln Asp Ala Gln Lys
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Arg Thr Ala Leu His Trp Ala Cys Val Asn Gly His Glu Glu Val Val
          20              25              30

```

```

Thr Phe Leu Val Asp Arg Lys Cys Gln Leu Asp Val Leu Asp Gly Glu
          35              40              45

```

```

His Arg Thr Pro Leu Met Lys Ala Leu Gln Cys His Gln Glu Ala Cys
          50              55              60

```

```

Ala Asn Ile Leu Ile Asp Ser Gly Ala Asp Ile Asn Leu Val Asp Val
          65              70              75              80

```

```

Tyr Gly Asn Met Ala Leu His Tyr Ala Val Tyr Ser Glu Ile Leu Ser
          85              90              95

```

```

Val Val Ala Lys Leu Leu Ser His Gly Ala Val Ile Glu Val His Asn
          100             105             110

```

```

Lys Ala Ser Leu Thr Pro Leu Leu Leu Ser Ile Thr Lys Arg Ser Glu
          115             120             125

```

```

Gln Ile Val Glu Phe Leu Leu Ile Lys Asn Ala Asn Ala Asn Ala Val
          130             135             140

```

```

Asn Lys Tyr Lys Cys Thr Ala Leu Met Leu Ala Val Cys His Gly Ser
          145             150             155             160

```

```

Ser Glu Ile Val Gly Met Leu Leu Gln Gln Asn Val Asp Val Phe Ala
          165             170             175

```

```

Ala Asp Ile Cys Gly Val Thr Ala Glu His Tyr Ala Val Thr Cys Gly
          180             185             190

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```

Phe His His Ile His Glu Gln Ile Met Glu Tyr Ile Arg Lys Leu Ser
          195             200             205

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Lys Asn His Gln Asn Thr Asn Pro Glu Gly Thr Ser Ala Gly Thr Pro
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 Asp Glu Ala Ala Pro Leu Ala Glu Arg Thr Pro Asp Thr Ala Glu Ser
 225 230 235 240
 Leu Val Glu Lys Thr Pro Asp Glu Ala Ala Pro Leu Val Glu Arg Thr
 245 250 255
 Pro Asp Thr Ala Glu Ser Leu Val Glu Lys Thr Pro Asp Glu Ala Ala
 260 265 270
 Ser Leu Val Glu Gly Thr Ser Asp Lys Ile Gln Cys Leu Glu Lys Ala
 275 280 285
 Thr Ser Gly Lys Phe Glu Gln Ser Ala Glu Glu Thr Pro Arg Glu Ile
 290 295 300
 Thr Ser Pro Ala Lys Glu Thr Ser Glu Lys Phe Thr Trp Pro Ala Lys
 305 310 315 320
 Gly Arg Pro Arg Lys Ile Ala Trp Glu Lys Lys Glu Asp Thr Pro Arg
 325 330 335
 Glu Ile Met Ser Pro Ala Lys Glu Thr Ser Glu Lys Phe Thr Trp Ala
 340 345 350
 Ala Lys Gly Arg Pro Arg Lys Ile Ala Trp Glu Lys Lys Glu Thr Pro
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 Val Lys Thr Gly Cys Val Ala Arg Val Thr Ser Asn Lys Thr Lys Val
 370 375 380
 Leu Glu Lys Gly Arg Ser Lys Met Ile Ala Cys Pro Thr Lys Glu
 385 390 395

 <210> 571
 <211> 247
 <212> PRT
 <213> Homo sapiens

 <400> 571
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 20 25 30
 Glu His Tyr Ala Val Thr Cys Gly Phe His His Ile His Glu Gln Ile
 35 40 45
 Met Glu Tyr Ile Arg Lys Leu Ser Lys Asn His Gln Asn Thr Asn Pro
 50 55 60

Glu Gly Thr Ser Ala Gly Thr Pro Asp Glu Ala Ala Pro Leu Ala Glu
65 70 75 80

Arg Thr Pro Asp Thr Ala Glu Ser Leu Val Glu Lys Thr Pro Asp Glu
85 90 95

Ala Ala Pro Leu Val Glu Arg Thr Pro Asp Thr Ala Glu Ser Leu Val
100 105 110

Glu Lys Thr Pro Asp Glu Ala Ala Ser Leu Val Glu Gly Thr Ser Asp
115 120 125

Lys Ile Gln Cys Leu Glu Lys Ala Thr Ser Gly Lys Phe Glu Gln Ser
130 135 140

Ala Glu Glu Thr Pro Arg Glu Ile Thr Ser Pro Ala Lys Glu Thr Ser
145 150 155 160

Glu Lys Phe Thr Trp Pro Ala Lys Gly Arg Pro Arg Lys Ile Ala Trp
165 170 175

Glu Lys Lys Glu Asp Thr Pro Arg Glu Ile Met Ser Pro Ala Lys Glu
180 185 190

Thr Ser Glu Lys Phe Thr Trp Ala Ala Lys Gly Arg Pro Arg Lys Ile
195 200 205

Ala Trp Glu Lys Lys Glu Thr Pro Val Lys Thr Gly Cys Val Ala Arg
210 215 220

Val Thr Ser Asn Lys Thr Lys Val Leu Glu Lys Gly Arg Ser Lys Met
225 230 235 240

Ile Ala Cys Pro Thr Lys Glu
245

<210> 572

<211> 399

<212> PRT

<213> Homo sapiens

<400> 572

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Arg Thr Ala Leu His Trp Ala Cys Val Asn Gly His Glu Glu Val Val
20 25 30

Thr Phe Leu Val Asp Arg Lys Cys Gln Pro Asp Val Leu Asp Gly Glu
35 40 45

His Arg Thr Pro Leu Met Lys Ala Leu Gln Cys His Gln Glu Ala Cys

50	55	60
Ala Asn Ile Leu Ile Asp Ser Gly Ala Asp Ile Asn Leu Val Asp Val		
65	70	75 80
Tyr Gly Asn Met Ala Leu His Tyr Ala Val Tyr Ser Glu Ile Leu Ser		
	85	90 95
Val Val Ala Lys Leu Leu Ser His Gly Ala Val Ile Glu Val His Asn		
	100	105 110
Lys Ala Ser Leu Thr Pro Leu Leu Ser Ile Thr Lys Arg Ser Glu		
	115	120 125
Gln Ile Val Glu Phe Leu Leu Ile Lys Asn Ala Asn Ala Asn Ala Val		
	130	135 140
Asn Lys Tyr Lys Cys Thr Ala Leu Met Leu Ala Val Cys His Gly Leu		
	145	150 155 160
Ser Glu Ile Val Gly Met Leu Leu Gln Gln Asn Val Asp Val Phe Ala		
	165	170 175
Ala Asp Ile Cys Gly Val Thr Ala Glu His Tyr Ala Val Thr Cys Gly		
	180	185 190
Phe His His Ile His Glu Gln Ile Met Glu Tyr Ile Arg Lys Leu Ser		
	195	200 205
Lys Asn His Gln Asn Thr Asn Pro Glu Gly Thr Ser Ala Gly Thr Pro		
	210	215 220
Asp Glu Ala Ala Pro Leu Ala Glu Arg Thr Pro Asp Thr Ala Glu Ser		
	225	230 235 240
Leu Val Glu Lys Thr Pro Asp Glu Ala Ala Pro Leu Val Glu Arg Thr		
	245	250 255
Pro Asp Thr Ala Glu Ser Leu Val Glu Lys Thr Pro Asp Glu Ala Ala		
	260	265 270
Ser Leu Val Glu Gly Thr Ser Asp Lys Ile Gln Cys Leu Glu Lys Ala		
	275	280 285
Thr Ser Gly Lys Phe Glu Gln Ser Ala Glu Glu Thr Pro Arg Glu Ile		
	290	295 300
Thr Ser Pro Ala Lys Glu Thr Ser Glu Lys Phe Thr Trp Pro Ala Lys		
	305	310 315 320
Gly Arg Pro Arg Lys Ile Ala Trp Glu Lys Lys Glu Asp Thr Pro Arg		
	325	330 335
Glu Ile Met Ser Pro Ala Lys Glu Thr Ser Glu Lys Phe Thr Trp Ala		

Ala Glu His Tyr Ala Val Thr Cys Gly Phe His His Ile His Glu Gln
 195 200 205
 Ile Met Glu Tyr Ile Arg Lys Leu Ser Lys Asn His Gln Asn Thr Asn
 210 215 220
 Pro Glu Gly Thr Ser Ala Gly Thr Pro Asp Glu Ala Ala Pro Leu Ala
 225 230 235 240
 Glu Arg Thr Pro Asp Thr Ala Glu Ser Leu Val Glu Lys Thr Pro Asp
 245 250 255
 Glu Ala Ala Pro Leu Val Glu Arg Thr Pro Asp Thr Ala Glu Ser Leu
 260 265 270
 Val Glu Lys Thr Pro Asp Glu Ala Ala Ser Leu Val Glu Gly Thr Ser
 275 280 285
 Asp Lys Ile Gln Cys Leu Glu Lys Ala Thr Ser Gly Lys Phe Glu Gln
 290 295 300
 Ser Ala Glu Glu Thr Pro Arg Glu Ile Thr Ser Pro Ala Lys Glu Thr
 305 310 315 320
 Ser Glu Lys Phe Thr Trp Pro Ala Lys Gly Arg Pro Arg Lys Ile Ala
 325 330 335
 Trp Glu Lys Lys Glu Asp Thr Pro Arg Glu Ile Met Ser Pro Ala Lys
 340 345 350
 Glu Thr Ser Glu Lys Phe Thr Trp Ala Ala Lys Gly Arg Pro Arg Lys
 355 360 365
 Ile Ala Trp Glu Lys Lys Glu Thr Pro Val Lys Thr Gly Cys Val Ala
 370 375 380
 Arg Val Thr Ser Asn Lys Thr Lys Val Leu Glu Lys Gly Arg Ser Lys
 385 390 395 400
 Met Ile Ala Cys Pro Thr Lys Glu Ser Ser Thr Lys Ala Ser Ala Asn
 405 410 415
 Asp Gln Arg Phe Pro Ser Glu Ser Lys Gln Glu Glu Asp Glu Glu Tyr
 420 425 430
 Ser Cys Asp Ser Arg Ser Leu Phe Glu Ser Ser Ala Lys Ile Gln Val
 435 440 445
 Cys Ile Pro Glu Ser Ile Tyr Gln Lys Val Met Glu Ile Asn Arg Glu
 450 455 460
 Val Glu Glu Pro Pro Lys Lys Pro Ser Ala Phe Lys Pro Ala Ile Glu
 465 470 475 480

Met Gln Asn Ser Val Pro Asn Lys Ala Phe Glu Leu Lys Asn Glu Gln
 485 490 495
 Thr Leu Arg Ala Asp Pro Met Phe Pro Pro Glu Ser Lys Gln Lys Asp
 500 505 510
 Tyr Glu Glu Asn Ser Trp Asp Ser Glu Ser Leu Cys Glu Thr Val Ser
 515 520 525
 Gln Lys Asp Val Cys Leu Pro Lys Ala Thr His Gln Lys Glu Ile Asp
 530 535 540
 Lys Ile Asn Gly Lys Leu Glu Glu Ser Pro Asn Lys Asp Gly Leu Leu
 545 550 555 560
 Lys Ala Thr Cys Gly Met Lys Val Ser Ile Pro Thr Lys Ala Leu Glu
 565 570 575
 Leu Lys Asp Met Gln Thr Phe Lys Ala Glu Pro Pro Gly Lys Pro Ser
 580 585 590
 Ala Phe Glu Pro Ala Thr Glu Met Gln Lys Ser Val Pro Asn Lys Ala
 595 600 605
 Leu Glu Leu Lys Asn Glu Gln Thr Trp Arg Ala Asp Glu Ile Leu Pro
 610 615 620
 Ser Glu Ser Lys Gln Lys Asp Tyr Glu Glu Asn Ser Trp Asp Thr Glu
 625 630 635 640
 Ser Leu Cys Glu Thr Val Ser Gln Lys Asp Val Cys Leu Pro Lys Ala
 645 650 655
 Ala His Gln Lys Glu Ile Asp Lys Ile Asn Gly Lys Leu Glu Gly Ser
 660 665 670
 Pro Val Lys Asp Gly Leu Leu Lys Ala Asn Cys Gly Met Lys Val Ser
 675 680 685
 Ile Pro Thr Lys Ala Leu Glu Leu Met Asp Met Gln Thr Phe Lys Ala
 690 695 700
 Glu Pro Pro Glu Lys Pro Ser Ala Phe Glu Pro Ala Ile Glu Met Gln
 705 710 715 720
 Lys Ser Val Pro Asn Lys Ala Leu Glu Leu Lys Asn Glu Gln Thr Leu
 725 730 735
 Arg Ala Asp Glu Ile Leu Pro Ser Glu Ser Lys Gln Lys Asp Tyr Glu
 740 745 750
 Glu Ser Ser Trp Asp Ser Glu Ser Leu Cys Glu Thr Val Ser Gln Lys
 755 760 765

Asp Val Cys Leu Pro Lys Ala Thr His Gln Lys Glu Ile Asp Lys Ile
 770 775 780
 Asn Gly Lys Leu Glu Glu Ser Pro Asp Asn Asp Gly Phe Leu Lys Ala
 785 790 795 800
 Pro Cys Arg Met Lys Val Ser Ile Pro Thr Lys Ala Leu Glu Leu Met
 805 810 815
 Asp Met Gln Thr Phe Lys Ala Glu Pro Pro Glu Lys Pro Ser Ala Phe
 820 825 830
 Glu Pro Ala Ile Glu Met Gln Lys Ser Val Pro Asn Lys Ala Leu Glu
 835 840 845
 Leu Lys Asn Glu Gln Thr Leu Arg Ala Asp Gln Met Phe Pro Ser Glu
 850 855 860
 Ser Lys Gln Lys Lys Val Glu Glu Asn Ser Trp Asp Ser Glu Ser Leu
 865 870 875 880
 Arg Glu Thr Val Ser Gln Lys Asp Val Cys Val Pro Lys Ala Thr His
 885 890 895
 Gln Lys Glu Met Asp Lys Ile Ser Gly Lys Leu Glu Asp Ser Thr Ser
 900 905 910
 Leu Ser Lys Ile Leu Asp Thr Val His Ser Cys Glu Arg Ala Arg Glu
 915 920 925
 Leu Gln Lys Asp His Cys Glu Gln Arg Thr Gly Lys Met Glu Gln Met
 930 935 940
 Lys Lys Lys Phe Cys Val Leu Lys Lys Lys Leu Ser Glu Ala Lys Glu
 945 950 955 960
 Ile Lys Ser Gln Leu Glu Asn Gln Lys Val Lys Trp Glu Gln Glu Leu
 965 970 975
 Cys Ser Val Arg Leu Thr Leu Asn Gln Glu Glu Glu Lys Arg Arg Asn
 980 985 990
 Ala Asp Ile Leu Asn Glu Lys Ile Arg Glu Glu Leu Gly Arg Ile Glu
 995 1000 1005
 Glu Gln His Arg Lys Glu Leu Glu Val Lys Gln Gln Leu Glu Gln Ala
 1010 1015 1020
 Leu Arg Ile Gln Asp Ile Glu Leu Lys Ser Val Glu Ser Asn Leu Asn
 1025 1030 1035 1040
 Gln Val Ser His Thr His Glu Asn Glu Asn Tyr Leu Leu His Glu Asn
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Cys Met Leu Lys Lys Glu Ile Ala Met Leu Lys Leu Glu Ile Ala Thr
 1060 1065 1070
 Leu Lys His Gln Tyr Gln Glu Lys Glu Asn Lys Tyr Phe Glu Asp Ile
 1075 1080 1085
 Lys Ile Leu Lys Glu Lys Asn Ala Glu Leu Gln Met Thr Leu Lys Leu
 1090 1095 1100
 Lys Glu Glu Ser Leu Thr Lys Arg Ala Ser Gln Tyr Ser Gly Gln Leu
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 Lys Val Leu Ile Ala Glu Asn Thr Met Leu Thr Ser Lys Leu Lys Glu
 1125 1130 1135
 Lys Gln Asp Lys Glu Ile Leu Glu Ala Glu Ile Glu Ser His His Pro
 1140 1145 1150
 Arg Leu Ala Ser Ala Val Gln Asp His Asp Gln Ile Val Thr Ser Arg
 1155 1160 1165
 Lys Ser Gln Glu Pro Ala Phe His Ile Ala Gly Asp Ala Cys Leu Gln
 1170 1175 1180
 Arg Lys Met Asn Val Asp Val Ser Ser Thr Ile Tyr Asn Asn Glu Val
 1185 1190 1195 1200
 Leu His Gln Pro Leu Ser Glu Ala Gln Arg Lys Ser Lys Ser Leu Lys
 1205 1210 1215
 Ile Asn Leu Asn Tyr Ala Gly Asp Ala Leu Arg Glu Asn Thr Leu Val
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 Ser Glu His Ala Gln Arg Asp Gln Arg Glu Thr Gln Cys Gln Met Lys
 1235 1240 1245
 Glu Ala Glu His Met Tyr Gln Asn Glu Gln Asp Asn Val Asn Lys His
 1250 1255 1260
 Thr Glu Gln Gln Glu Ser Leu Asp Gln Lys Leu Phe Gln Leu Gln Ser
 1265 1270 1275 1280
 Lys Asn Met Trp Leu Gln Gln Gln Leu Val His Ala His Lys Lys Ala
 1285 1290 1295
 Asp Asn Lys Ser Lys Ile Thr Ile Asp Ile His Phe Leu Glu Arg Lys
 1300 1305 1310
 Met Gln His His Leu Leu Lys Glu Lys Asn Glu Glu Ile Phe Asn Tyr
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Glu Thr Glu Val Ile
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<220>
<223> PCR primer

<400> 574
cacacaaaga ggaagaagac catc

24

<210> 575
<211> 27
<212> DNA
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<220>
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<400> 575
gattcttttg taggacatgc aatcatc

27

<210> 576
<211> 3720
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<213> Homo sapiens

<220>
<221> misc_feature
<222> 1149
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aaaaatgcaa atgcaaacgc atttaatgag tctaaatgca cagccctcat gcttgccata 180
tgtgaaggct catcagagat agtcggcatg cttcttcagc aaaatgttga cgtctttgct 240
gaagacatac atggaataac tgcagaacgt tatgctgctg ctctgtggagt taattacatt 300
catcaacaac ttttggaaac tatacgaaaa ttacctaaaa atcctcaaaa taccaatcca 360
gaaggaaacat ctacaggaac acctgatgag gctgcaccct tggcggaag aacacctgac 420
acggctgaaa gcttgctgga aaaaacacct gacgaggctg cacgcttggg ggagggaacg 480
tctgccaaaa ttcaatgtct ggggaaagca acatctggaa agtttgaaca gtcaacagaa 540
gaaacaccta ggaaaatttt gaggcctaca aaagaaacat ctgagaaatt ttcattggcca 600
gcaaaagaaa gatctaggaa gatcacatgg gaggaaaaag aaacatctgt aaagactgaa 660
tgcgtggcag gagtaacacc taataaaact gaagtttttg aaaaaggaac atctaatatg 720
attgcatgtc ctacaaaaga aacatctaca aaagcaagta caaatgtgga tgtgagttct 780
gtagagccta tattcagttc ttttggcaca cggactattg aaaattcaca gtgtacaaaa 840

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<213> Homo sapiens
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<400> 577

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Lys Ala Ser Leu Thr Pro Leu Leu Leu Ala Ile Gln Lys Arg Ser Lys
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Gln Thr Val Glu Phe Leu Leu Thr Lys Asn Ala Asn Ala Asn Ala Phe
      35                      40                      45

Asn Glu Ser Lys Cys Thr Ala Leu Met Leu Ala Ile Cys Glu Gly Ser
      50                      55                      60

Ser Glu Ile Val Gly Met Leu Leu Gln Gln Asn Val Asp Val Phe Ala
      65                      70                      75                      80

Glu Asp Ile His Gly Ile Thr Ala Glu Arg Tyr Ala Ala Ala Arg Gly
      85                      90                      95

Val Asn Tyr Ile His Gln Gln Leu Leu Glu His Ile Arg Lys Leu Pro
      100                     105                     110

Lys Asn Pro Gln Asn Thr Asn Pro Glu Gly Thr Ser Thr Gly Thr Pro
      115                     120                     125

Asp Glu Ala Ala Pro Leu Ala Glu Arg Thr Pro Asp Thr Ala Glu Ser
      130                     135                     140

Leu Leu Glu Lys Thr Pro Asp Glu Ala Ala Arg Leu Val Glu Gly Thr
      145                     150                     155                     160

Ser Ala Lys Ile Gln Cys Leu Gly Lys Ala Thr Ser Gly Lys Phe Glu
      165                     170                     175

Gln Ser Thr Glu Glu Thr Pro Arg Lys Ile Leu Arg Pro Thr Lys Glu
      180                     185                     190

Thr Ser Glu Lys Phe Ser Trp Pro Ala Lys Glu Arg Ser Arg Lys Ile
      195                     200                     205

Thr Trp Glu Glu Lys Glu Thr Ser Val Lys Thr Glu Cys Val Ala Gly
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Val Thr Pro Asn Lys Thr Glu Val Leu Glu Lys Gly Thr Ser Asn Met
      225                     230                     235                     240

Ile Ala Cys Pro Thr Lys Glu Thr Ser Thr Lys Ala Ser Thr Asn Val
      245                     250                     255

Asp Val Ser Ser Val Glu Pro Ile Phe Ser Leu Phe Gly Thr Arg Thr
      260                     265                     270

Ile Glu Asn Ser Gln Cys Thr Lys Val Glu Glu Asp Phe Asn Leu Ala
      275                     280                     285

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Thr Lys Ile Ile Ser Lys Ser Ala Ala Gln Asn Tyr Thr Cys Leu Pro
 290 295 300
 Asp Ala Thr Tyr Gln Lys Asp Ile Lys Thr Ile Asn His Lys Ile Glu
 305 310 315 320
 Asp Gln Met Phe Pro Ser Glu Ser Lys Arg Glu Glu Asp Glu Glu Tyr
 325 330 335
 Ser Trp Asp Ser Gly Ser Leu Phe Glu Ser Ser Ala Lys Thr Gln Val
 340 345 350
 Cys Ile Pro Glu Ser Met Tyr Gln Lys Val Met Glu Ile Asn Arg Glu
 355 360 365
 Val Glu Glu Leu Pro Glu Lys Pro Ser Ala Phe Lys Pro Ala Val Glu
 370 375 380
 Met Gln Lys Thr Val Pro Asn Lys Ala Phe Glu Leu Lys Asn Glu Gln
 385 390 395 400
 Thr Leu Arg Ala Ala Gln Met Phe Pro Ser Glu Ser Lys Gln Lys Asp
 405 410 415
 Asp Glu Glu Asn Ser Trp Asp Ser Glu Ser Pro Cys Glu Thr Val Ser
 420 425 430
 Gln Lys Asp Val Tyr Leu Pro Lys Ala Thr His Gln Lys Glu Phe Asp
 435 440 445
 Thr Leu Ser Gly Lys Leu Glu Glu Ser Pro Val Lys Asp Gly Leu Leu
 450 455 460
 Lys Pro Thr Cys Gly Arg Lys Val Ser Leu Pro Asn Lys Ala Leu Glu
 465 470 475 480
 Leu Lys Asp Arg Glu Thr Phe Lys Ala Glu Ser Pro Asp Lys Asp Gly
 485 490 495
 Leu Leu Lys Pro Thr Cys Gly Arg Lys Val Ser Leu Pro Asn Lys Ala
 500 505 510
 Leu Glu Leu Lys Asp Arg Glu Thr Leu Lys Ala Glu Ser Pro Asp Asn
 515 520 525
 Asp Gly Leu Leu Lys Pro Thr Cys Gly Arg Lys Val Ser Leu Pro Asn
 530 535 540
 Lys Ala Leu Glu Leu Lys Asp Arg Glu Thr Phe Lys Ala Ala Gln Met
 545 550 555 560
 Phe Pro Ser Glu Ser Lys Gln Lys Asp Asp Glu Glu Asn Ser Trp Asp
 565 570 575

Phe Glu Ser Phe Leu Glu Thr Leu Leu Gln Asn Asp Val Cys Leu Pro
 580 585 590
 Lys Ala Thr His Gln Lys Glu Phe Asp Thr Leu Ser Gly Lys Leu Glu
 595 600 605
 Glu Ser Pro Asp Lys Asp Gly Leu Leu Lys Pro Thr Cys Gly Met Lys
 610 615 620
 Ile Ser Leu Pro Asn Lys Ala Leu Glu Leu Lys Asp Arg Glu Thr Phe
 625 630 635 640
 Lys Ala Glu Asp Val Ser Ser Val Glu Ser Thr Phe Ser Leu Phe Gly
 645 650 655
 Lys Pro Thr Thr Glu Asn Ser Gln Ser Thr Lys Val Glu Glu Asp Phe
 660 665 670
 Asn Leu Thr Thr Lys Glu Gly Ala Thr Lys Thr Val Thr Gly Gln Gln
 675 680 685
 Glu Arg Asp Ile Gly Ile Ile Glu Arg Ala Pro Gln Asp Gln Thr Asn
 690 695 700
 Lys Met Pro Thr Ser Glu Leu Gly Arg Lys Glu Asp Thr Lys Ser Thr
 705 710 715 720
 Ser Asp Ser Glu Ile Ile Ser Val Ser Asp Thr Gln Asn Tyr Glu Cys
 725 730 735
 Leu Pro Glu Ala Thr Tyr Gln Lys Glu Ile Lys Thr Thr Asn Gly Lys
 740 745 750
 Ile Glu Glu Ser Pro Glu Lys Pro Ser His Phe Glu Pro Ala Thr Glu
 755 760 765
 Met Gln Asn Ser Val Pro Asn Lys Gly Leu Glu Trp Lys Asn Lys Gln
 770 775 780
 Thr Leu Arg Ala Asp Ser Thr Thr Leu Ser Lys Ile Leu Asp Ala Leu
 785 790 795 800
 Pro Ser Cys Glu Arg Gly Arg Glu Leu Lys Lys Asp Asn Cys Glu Gln
 805 810 815
 Ile Thr Ala Lys Met Glu Gln Met Lys Asn Lys Phe Cys Val Leu Gln
 820 825 830
 Lys Glu Leu Ser Glu Ala Lys Glu Ile Lys Ser Gln Leu Glu Asn Gln
 835 840 845
 Lys Ala Lys Trp Glu Gln Glu Leu Cys Ser Val Arg Leu Pro Leu Asn
 850 855 860

Gln Glu Glu Glu Lys Arg Arg Asn Val Asp Ile Leu Lys Glu Lys Ile
 865 870 875 880
 Arg Pro Glu Glu Gln Leu Arg Lys Lys Leu Glu Val Lys His Gln Leu
 885 890 895
 Glu Gln Thr Leu Arg Ile Gln Asp Ile Glu Leu Lys Ser Val Thr Ser
 900 905 910
 Asn Leu Asn Gln Val Ser His Thr His Glu Ser Glu Asn Asp Leu Phe
 915 920 925
 His Glu Asn Cys Met Leu Lys Lys Glu Ile Ala Met Leu Lys Leu Glu
 930 935 940
 Val Ala Thr Leu Lys His Gln His Gln Val Lys Glu Asn Lys Tyr Phe
 945 950 955 960
 Glu Asp Ile Lys Ile Leu Gln Glu Lys Asn Ala Glu Leu Gln Met Thr
 965 970 975
 Leu Lys Leu Lys Gln Lys Thr Val Thr Lys Arg Ala Ser Gln Tyr Arg
 980 985 990
 Glu Gln Leu Lys Val Leu Thr Ala Glu Asn Thr Met Leu Thr Ser Lys
 995 1000 1005
 Leu Lys Glu Lys Gln Asp Lys Glu Ile Leu Glu Thr Glu Ile Glu Ser
 1010 1015 1020
 His His Pro Arg Leu Ala Ser Ala Leu Gln Asp His Asp Gln Ser Val
 1025 1030 1035 1040
 Thr Ser Arg Lys Asn Gln Glu Leu Ala Phe His Ser Ala Gly Asp Ala
 1045 1050 1055
 Pro Leu Gln Gly Ile Met Asn Val Asp Val Ser Asn Thr Ile Tyr Asn
 1060 1065 1070
 Asn Glu Val Leu His Gln Pro Leu Tyr Glu Ala Gln Arg Lys Ser Lys
 1075 1080 1085
 Ser Pro Lys Ile Asn Leu Asn Tyr Ala Gly Asp Asp Leu Arg Glu Asn
 1090 1095 1100
 Ala Leu Val Ser Glu His Ala Gln Arg Asp Arg Cys Glu Thr Gln Cys
 1105 1110 1115 1120
 Gln Met Lys Lys Ala Glu His Met Tyr Gln Asn Glu Gln Asp Asn Val
 1125 1130 1135
 Asp Lys His Thr Glu Gln Gln Glu Ser Leu Glu Gln Lys Leu Phe Gln
 1140 1145 1150

Leu Glu Ser Lys Asn Arg Trp Leu Arg Gln Gln Leu Val Tyr Ala His
 1155 1160 1165

Lys Lys Val Asn Lys Ser Lys Val Thr Ile Asn Ile Gln Phe Pro Glu
 1170 1175 1180

Met Lys Met Gln Arg His Leu Lys Glu Lys Asn Glu Glu Val Phe Asn
 1185 1190 1195 1200

Tyr Gly Asn His Leu Lys Glu Arg Ile Asp Gln Tyr Glu Lys Glu Lys
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Ala Glu Arg Glu Val Ser Ile Lys Lys Tyr Lys Tyr Phe Ser Asn Phe
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Leu Lys Glu Ser Gly Leu Gly
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 <212> PRT
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<400> 578
 Lys Asn Glu Glu Ile Phe Asn Tyr Asn Asn His Leu Lys Asn Arg Ile
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Tyr Gln Tyr Glu
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<210> 579
 <211> 20
 <212> PRT
 <213> Homo sapiens

<400> 579
 Glu Gln Asp Asn Val Asn Lys His Thr Glu Gln Gln Glu Ser Leu Asp
 5 10 15

Gln Lys Leu Phe
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<210> 580
 <211> 20
 <212> PRT
 <213> Homo sapiens

<400> 580

Thr Glu Gln Gln Glu Ser Leu Asp Gln Lys Leu Phe Gln Leu Gln Ser
 5 10 15

Lys Asn Met Trp
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<210> 581
 <211> 20
 <212> PRT
 <213> Homo sapiens

<400> 581
 Lys Glu Glu Ser Leu Thr Lys Arg Ala Ser Gln Tyr Ser Gly Gln Leu
 5 10 15

Lys Val Leu Ile
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<210> 582
 <211> 20
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 Ile Ala Gly Asp Ala Cys Leu Gln Arg Lys Met Asn Val Asp Val Ser
 5 10 15

Ser Thr Ile Tyr
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 Arg Lys Met Asn Val Asp Val Ser Ser Thr Ile Tyr Asn Asn Glu Val
 5 10 15

Leu His Gln Pro
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<210> 584
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 Met Gly Thr Arg Ala Leu Gln Cys Glu Val Ser His Thr His Glu Asn
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Glu Asn Tyr Leu
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Glu Val Ser His Thr His Glu Asn Glu Asn Tyr Leu Leu His Glu Asn
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Cys Met Leu Lys
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Met Leu Lys Leu
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<210> 587
<211> 21
<212> PRT
<213> Homo sapiens

<400> 587
Asn Cys Met Leu Lys Lys Glu Ile Ala Met Leu Lys Leu Glu Ile Ala
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Thr Leu Lys His Gln
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<210> 588
<211> 20
<212> PRT
<213> Homo sapiens

<400> 588
Met Leu Thr Ser Lys Leu Lys Glu Lys Gln Asp Lys Glu Ile Leu Glu
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Ala Glu Ile Glu

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<210> 589
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 <212> PRT
 <213> Homo sapiens

<400> 589
 Lys Gln Asp Lys Glu Ile Leu Glu Ala Glu Ile Glu Ser His His Pro
 5 10 15

Arg Leu Ala Ser
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<210> 590
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<400> 590
 Ala Glu Ile Glu Ser His His Pro Arg Leu Ala Ser Ala Val Gln Asp
 5 10 15

His Asp Gln Ile
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<210> 591
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Lys Ser Gln Glu
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<210> 592
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 His Asp Gln Ile Val Thr Ser Arg Lys Ser Gln Glu Pro Ala Phe His
 5 10 15

Ile Ala Gly Asp
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Arg Lys Met Asn
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 Glu Asn Tyr Leu
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<210> 595
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 Ser His Thr His Glu Asn Glu Asn Tyr Leu Leu His Glu Asn Cys Met
 1 5 10 15
 Leu Lys Lys Glu
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 Glu Ile Ala Thr
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<210> 597
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<213> Homo sapiens

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 Glu Lys Glu Asn
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<210> 598

<211> 20

<212> PRT

<213> Homo sapiens

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Leu Lys His Gln Tyr Gln Glu Lys Glu Asn Lys Tyr Phe Glu Asp Ile
 1 5 10 15
 Lys Ile Leu Lys
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<211> 20

<212> PRT

<213> Homo sapiens

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 Gln Met Thr Leu
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<212> PRT

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<211> 20

<212> PRT

<213> Homo sapiens

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 Gln Leu Lys Val

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<210> 602
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 Met Leu Thr Ser
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<210> 603
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 Asp Lys Glu Ile
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 Ser His His Pro
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<210> 605
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 Gln Asp His Asp
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<210> 606
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<213> Homo sapiens

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<213> Homo sapiens

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<211> 20

<212> PRT

<213> Homo sapiens

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Pro Ala Phe His Ile Ala Gly Asp Ala Cys Leu Gln Arg Lys Met Asn
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 Val Asp Val Ser
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<210> 609

<211> 20

<212> PRT

<213> Homo sapiens

<400> 609

Leu Gln Arg Lys Met Asn Val Asp Val Ser Ser Thr Ile Tyr Asn Asn
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 Glu Val Leu His
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<210> 610

<211> 20

<212> PRT

<213> Homo sapiens

<400> 610

Ser Thr Ile Tyr Asn Asn Glu Val Leu His Gln Pro Leu Ser Glu Ala
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 Gln Arg Lys Ser

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<210> 611
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 Asn Leu Asn Tyr Ala
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<210> 612
 <211> 20
 <212> PRT
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<400> 612
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 Asn Thr Leu Val
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<210> 613
 <211> 20
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<400> 613
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 1 5 10 15
 Asp Gln Arg Glu
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<210> 614
 <211> 20
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 1 5 10 15
 Glu Ala Glu His
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<210> 615
 <211> 20
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<213> Homo sapiens

<400> 615

Thr Gln Cys Gln Met Lys Glu Ala Glu His Met Tyr Gln Asn Glu Gln
 1 5 10 15
 Asp Asn Val Asn
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<210> 616

<211> 20

<212> PRT

<213> Homo sapiens

<400> 616

Met Tyr Gln Asn Glu Gln Asp Asn Val Asn Lys His Thr Glu Gln Gln
 1 5 10 15
 Glu Ser Leu Asp
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<210> 617

<211> 20

<212> PRT

<213> Homo sapiens

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Lys His Thr Glu Gln Gln Glu Ser Leu Asp Gln Lys Leu Phe Gln Leu
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 Gln Ser Lys Asn
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<210> 618

<211> 21

<212> PRT

<213> Homo sapiens

<400> 618

Asp Gln Lys Leu Phe Gln Leu Gln Ser Lys Asn Met Trp Leu Gln Gln
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 Gln Leu Val His Ala
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<210> 619

<211> 20

<212> PRT

<213> Homo sapiens

<400> 619

Met Trp Leu Gln Gln Gln Leu Val His Ala His Lys Lys Ala Asp Asn
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 Lys Ser Lys Ile
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<210> 620
 <211> 20
 <212> PRT
 <213> Homo sapiens

<400> 620
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 Leu Glu Arg Lys
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<210> 621
 <211> 20
 <212> PRT
 <213> Homo sapiens

<400> 621
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 Lys Glu Lys Asn
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<210> 622
 <211> 20
 <212> PRT
 <213> Homo sapiens

<400> 622
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 Asn Asn His Leu
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<210> 623
 <211> 20
 <212> PRT
 <213> Homo sapiens

<400> 623
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 Tyr Glu Lys Glu
 20

<210> 624
 <211> 20
 <212> PRT
 <213> Homo sapiens

Asn His Leu Lys Asn Arg Ile Tyr Gln Tyr Glu Lys Glu Lys Ala Glu
1 5 10 15
Thr Glu Val Ile
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<211> 27

<212> PRT

<213> Homo sapiens

Leu Thr Leu Asn Gln Glu Glu Glu Lys Arg Arg Asn Ala Asp Ile Leu
1 5 10 15
Asn Glu Lys Ile Arg Glu Glu Leu Gly Cys Gly
20 25

<211> 29

<212> PRT

<213> Homo sapiens

Ile Arg Glu Glu Leu Gly Arg Ile Glu Glu Gln His Arg Lys Glu Leu
1 5 10 15
Glu Val Lys Gln Gln Leu Glu Gln Ala Leu Gly Cys Gly
20 25

<211> 24

<212> PRT

<213> Homo sapiens

Leu Glu Gln Ala Leu Arg Ile Gln Asp Ile Glu Leu Lys Ser Val Glu
1 5 10 15
Ser Asn Leu Asn Gln Gly Cys Gly
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